

Figure 1a: C. Adachi, et al.

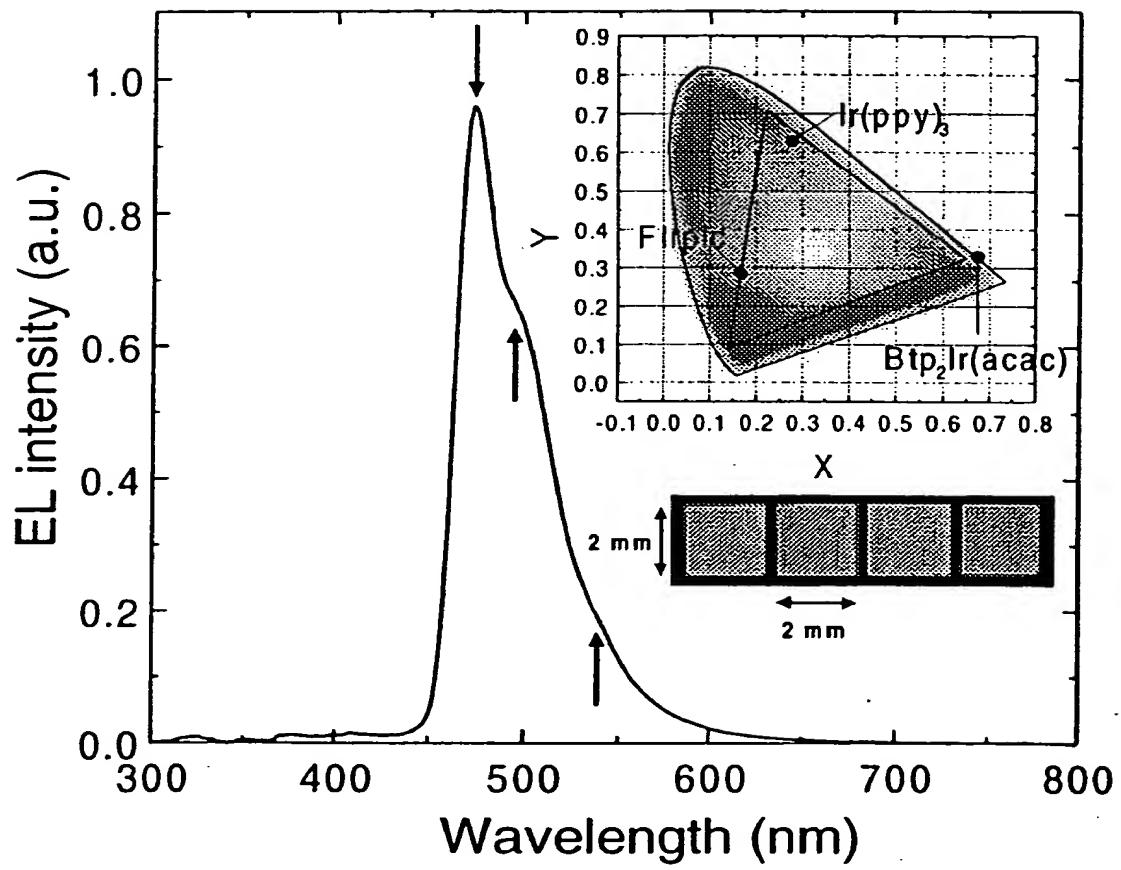


Figure 1b: C. Adachi, et. al.

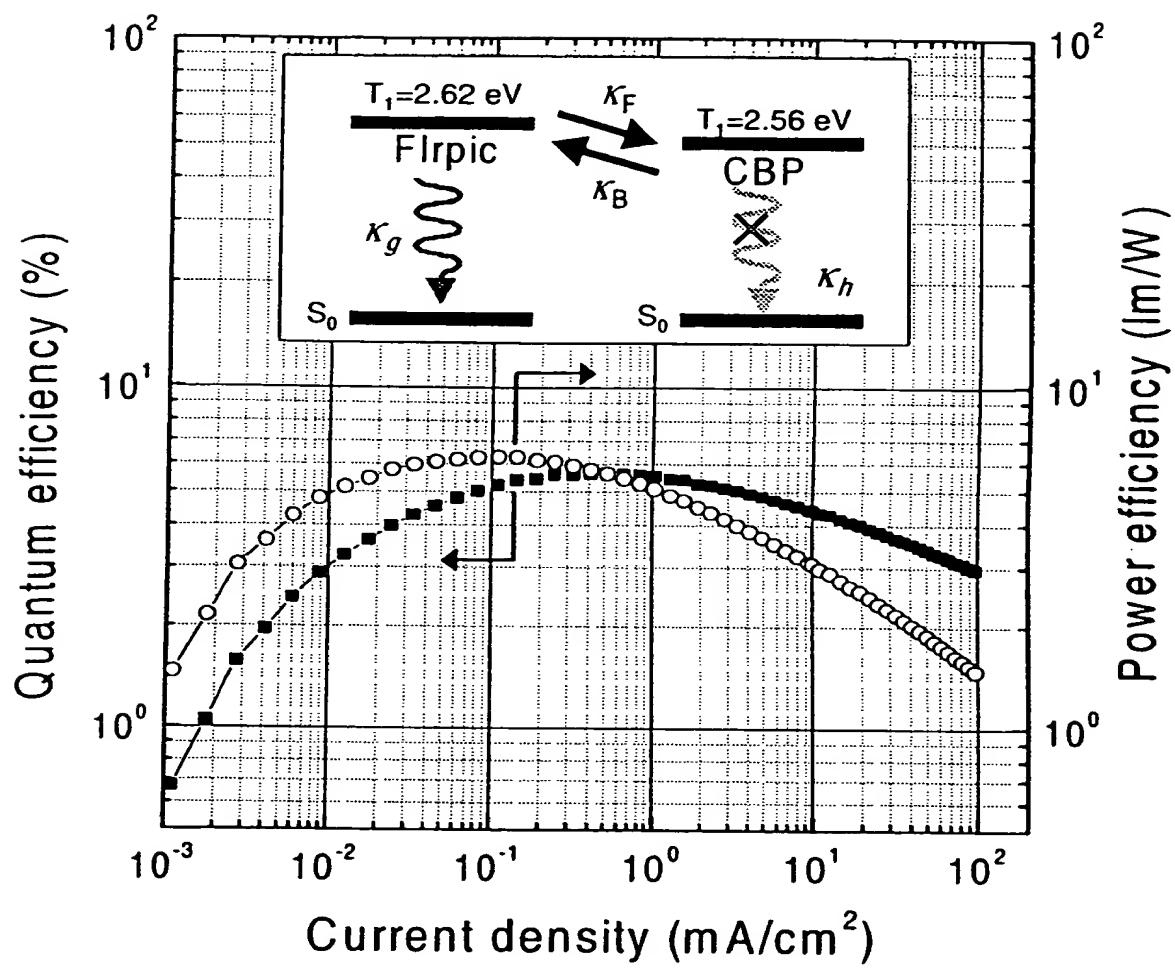


Figure 2: C. Adachi, et.al.

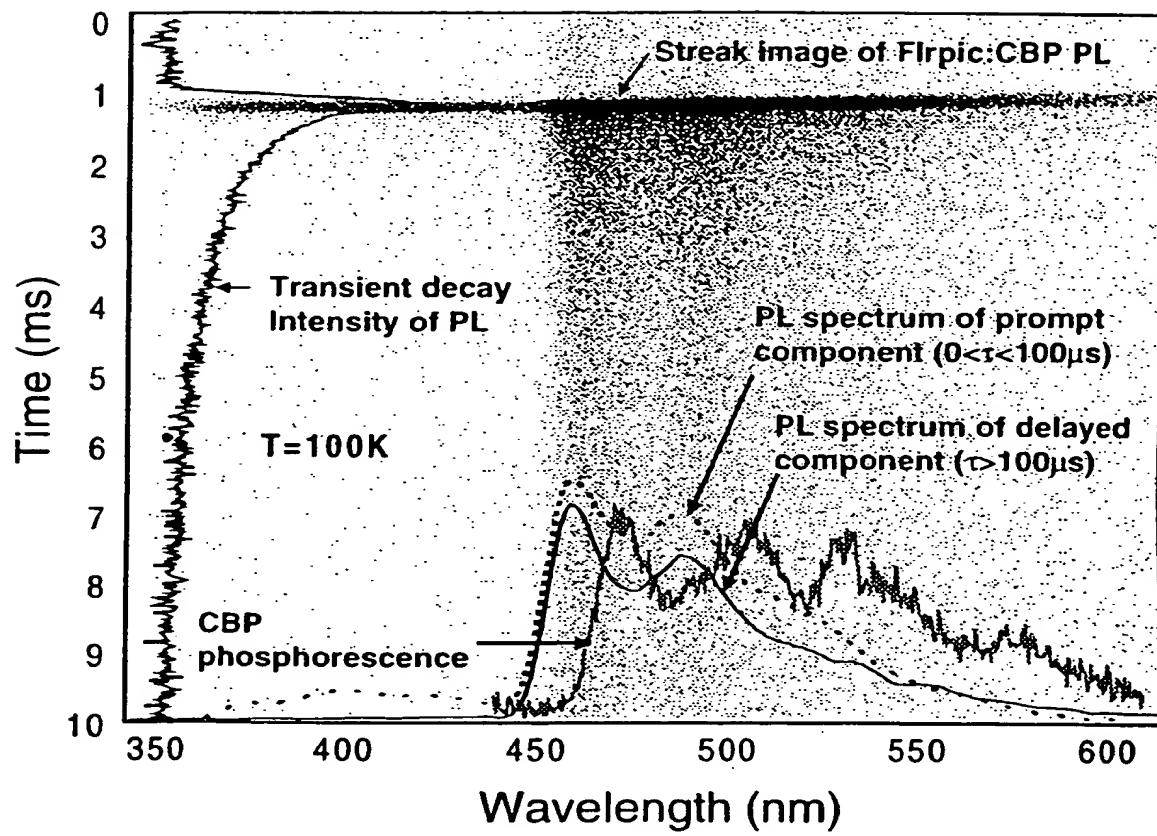


Figure 3: C. Adachi, et. al.

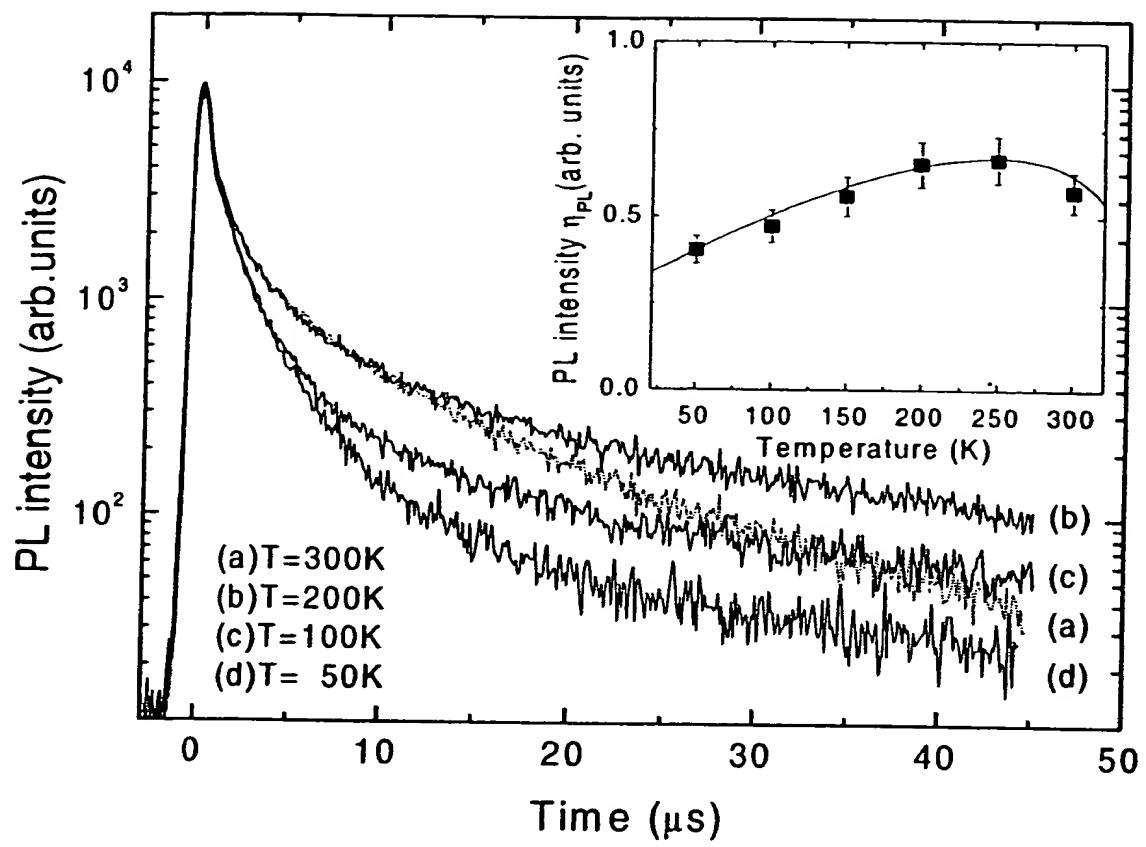


Figure 4: C. Adachi, et.al.

Figure 5a

Generic Mono-Anionic, Bidentate, Carbon-Coordination Ligands-I

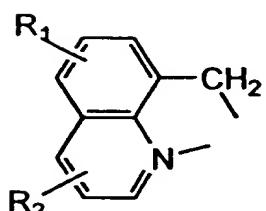
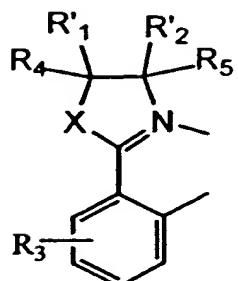
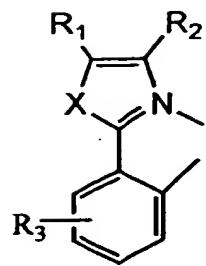
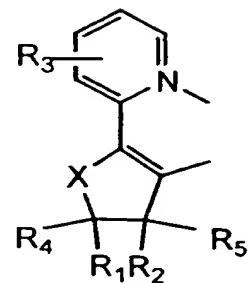
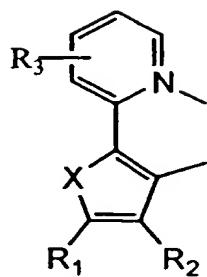
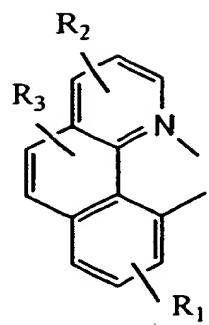
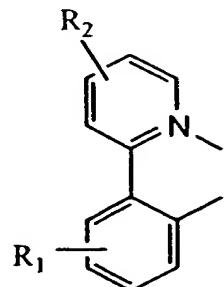
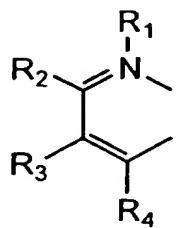


Figure 5b

Generic Mono-Anionic, Bidentate, Carbon-Coordination Ligands-II

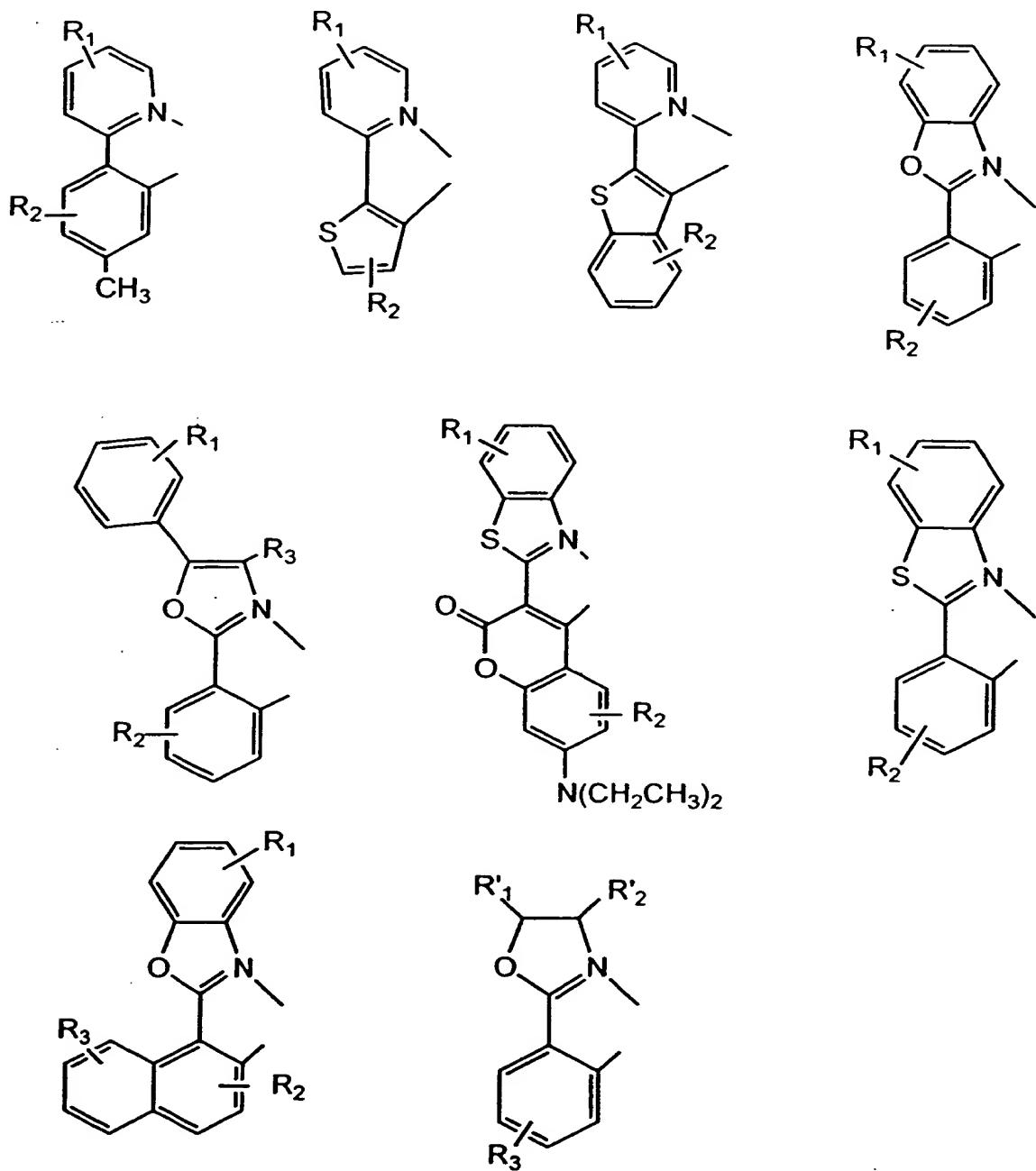


Figure 5c

Generic Mono-Anionic, Bidentate, Carbon-Coordination Ligands-III

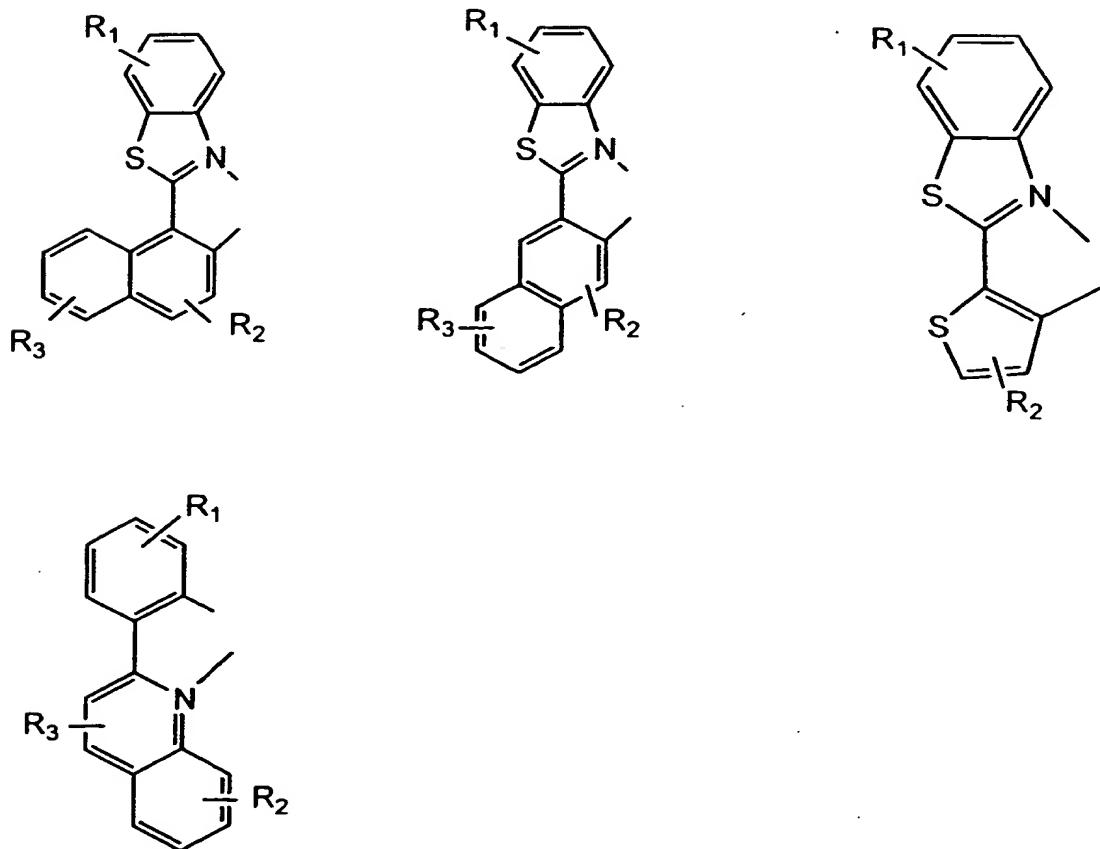
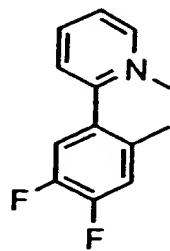
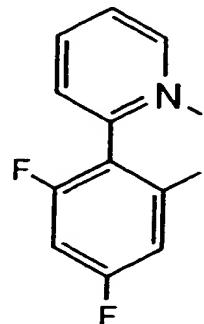
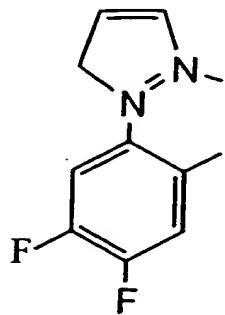


Figure 5d

Specific Mono-Anionic, Bidentate, Carbon-Coordination Ligands-I



UDC Proprietary and Confidential

Figure 6a

## Generic Non-Mono-Anionic, Bidentate, Carbon-Coordination Ligands-I

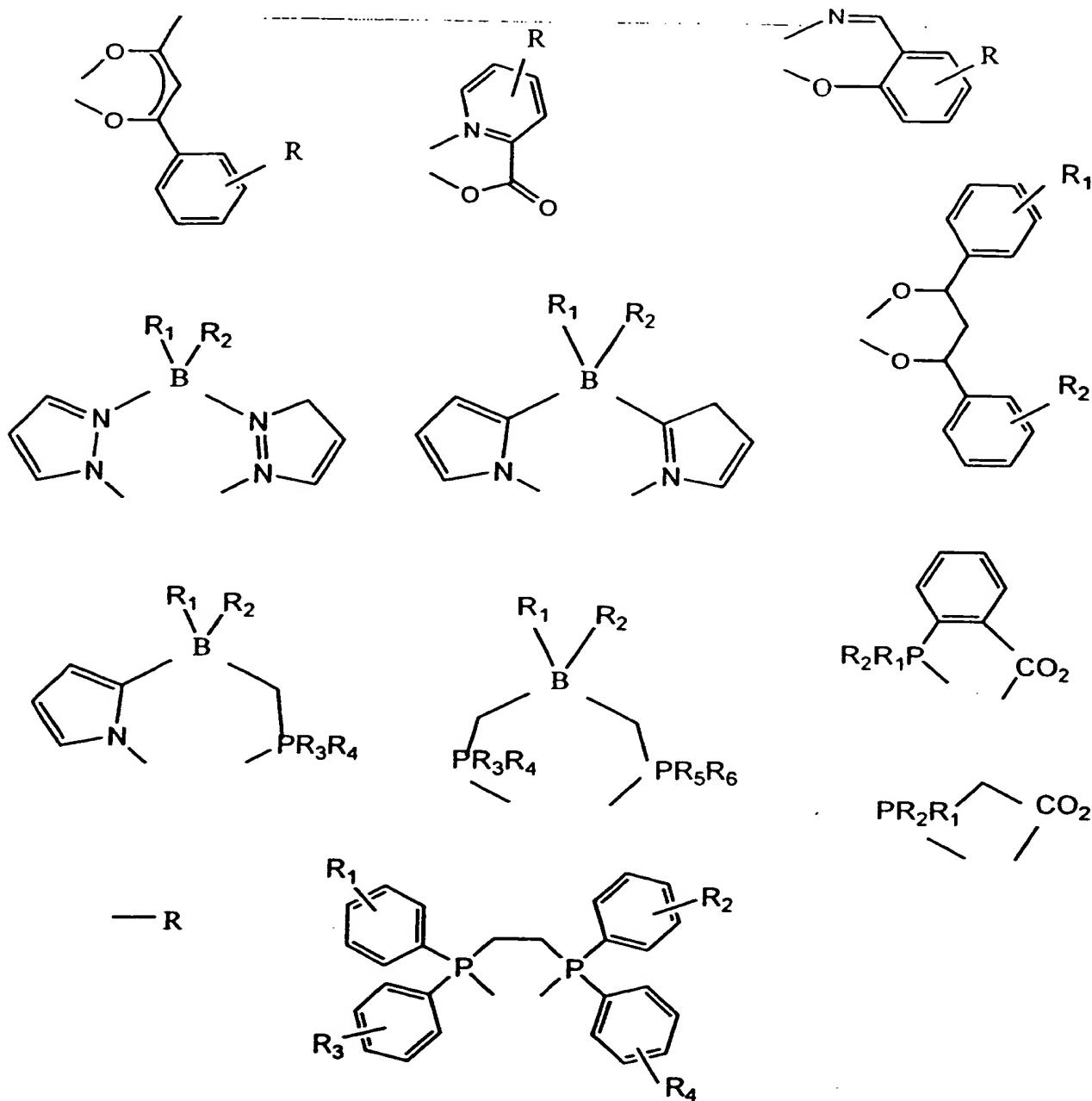


Figure 6b

Generic Non-Mono-Anionic, Bidentate, Carbon-Coordination Ligands-II

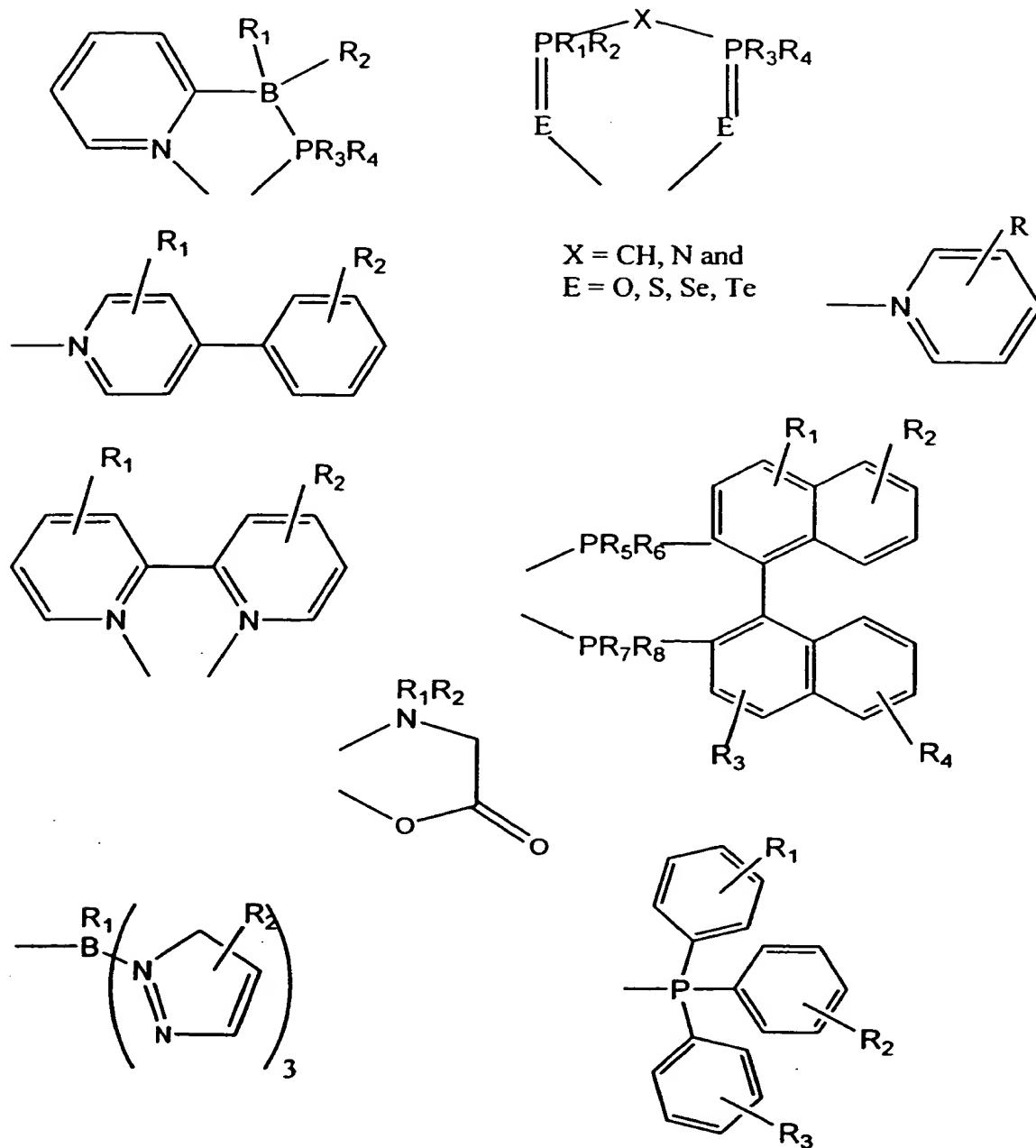
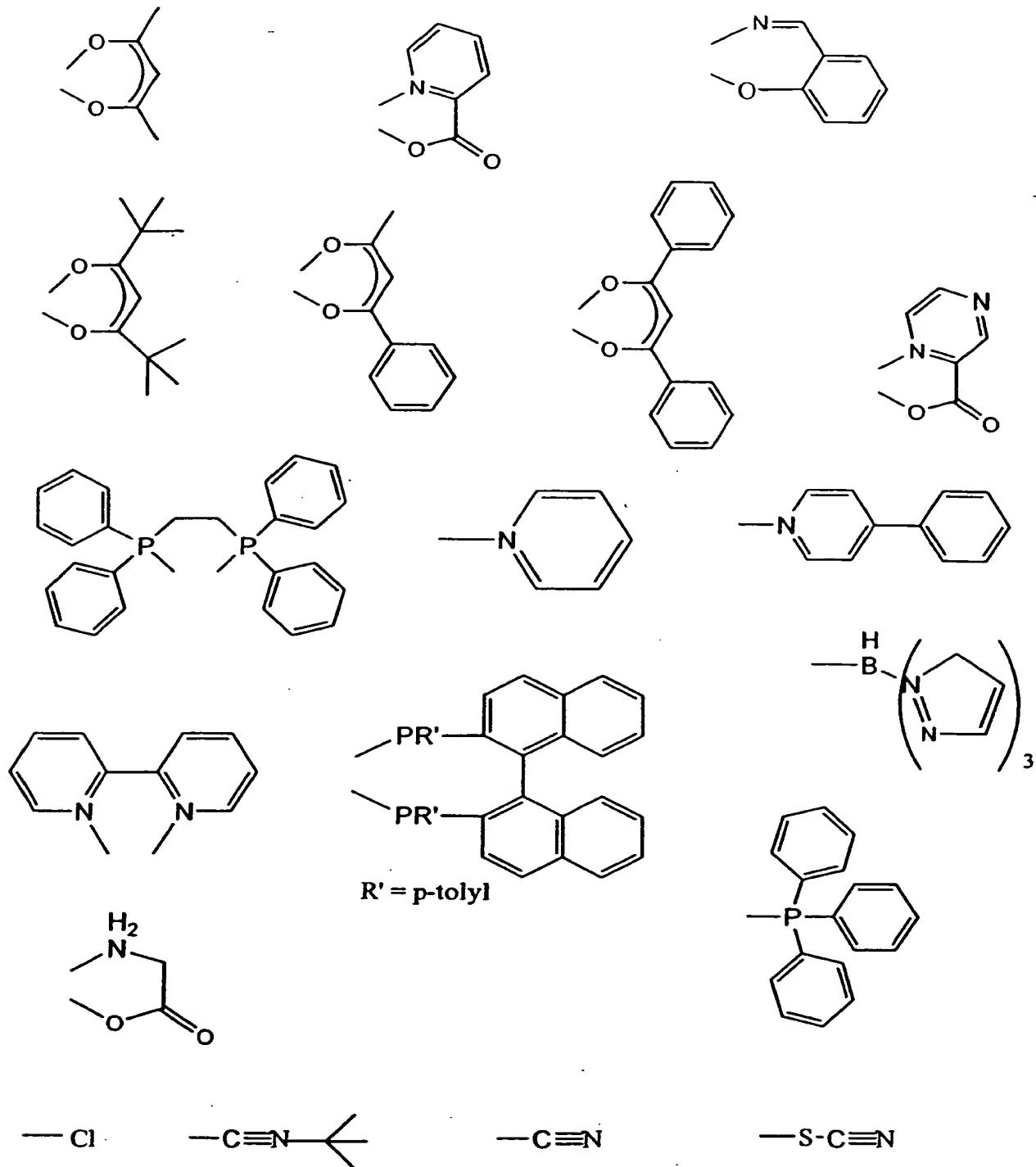


Figure 6c

## Specific Non-Mono-Anionic, Bidentate, Carbon-Coordination Ligands



UDC Proprietary and Confidential

Figure 8d

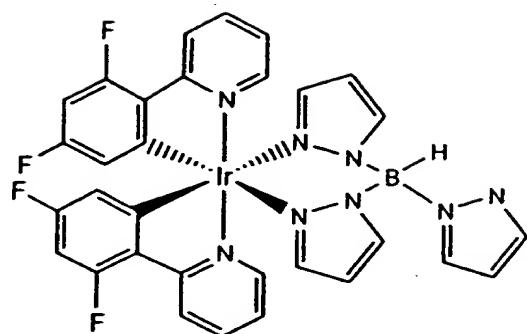
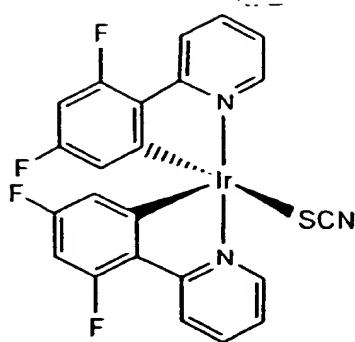
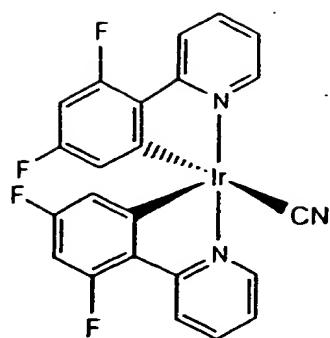


Figure 7a

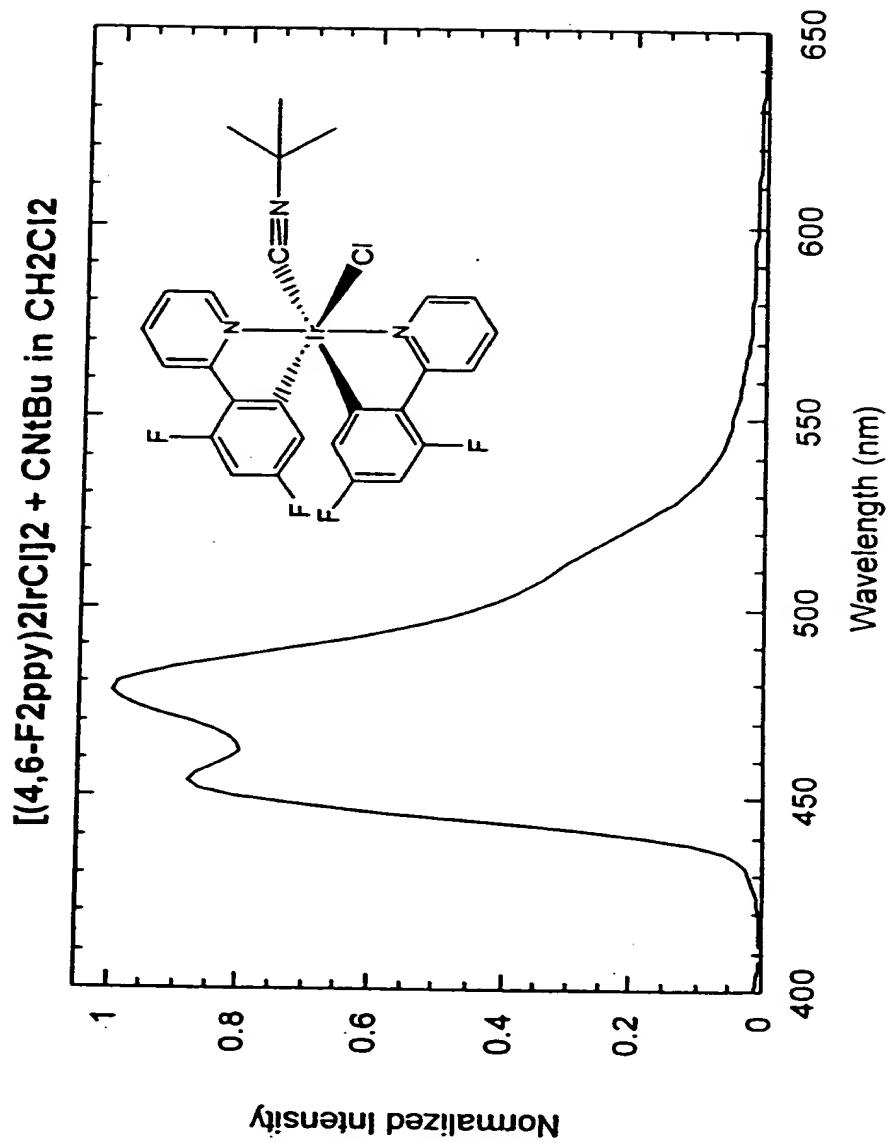


Figure 7b

$[\text{Ir}(4,6\text{-F}_2\text{ppy})_2\text{Cl}]_2 + 4\text{-Phyr}$  in  $\text{CH}_2\text{Cl}_2$

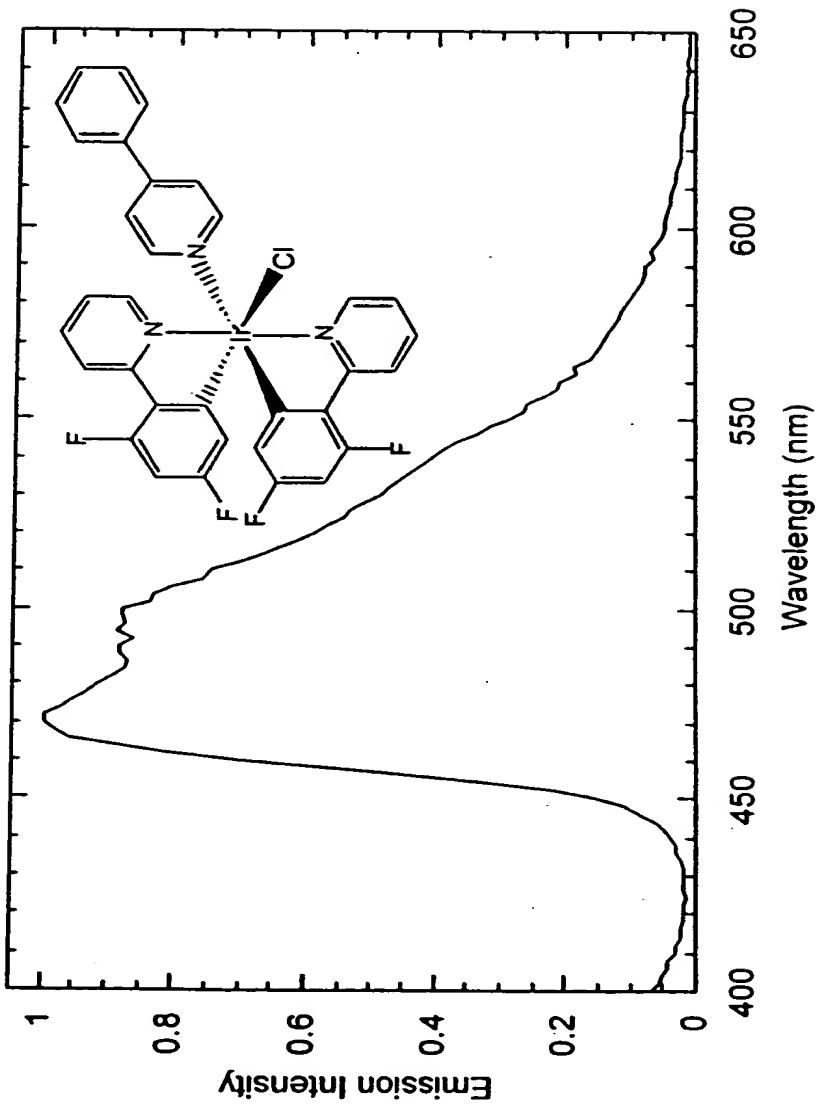


Figure 7c

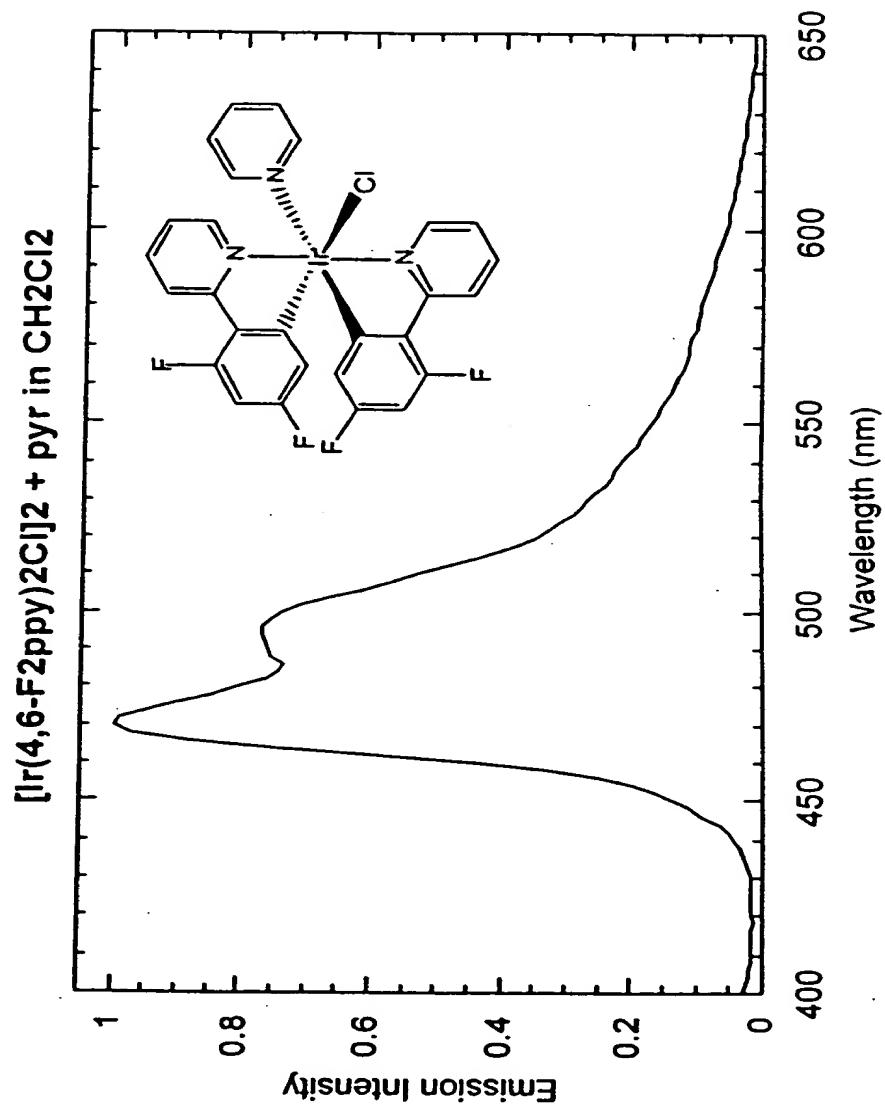


Figure 7d

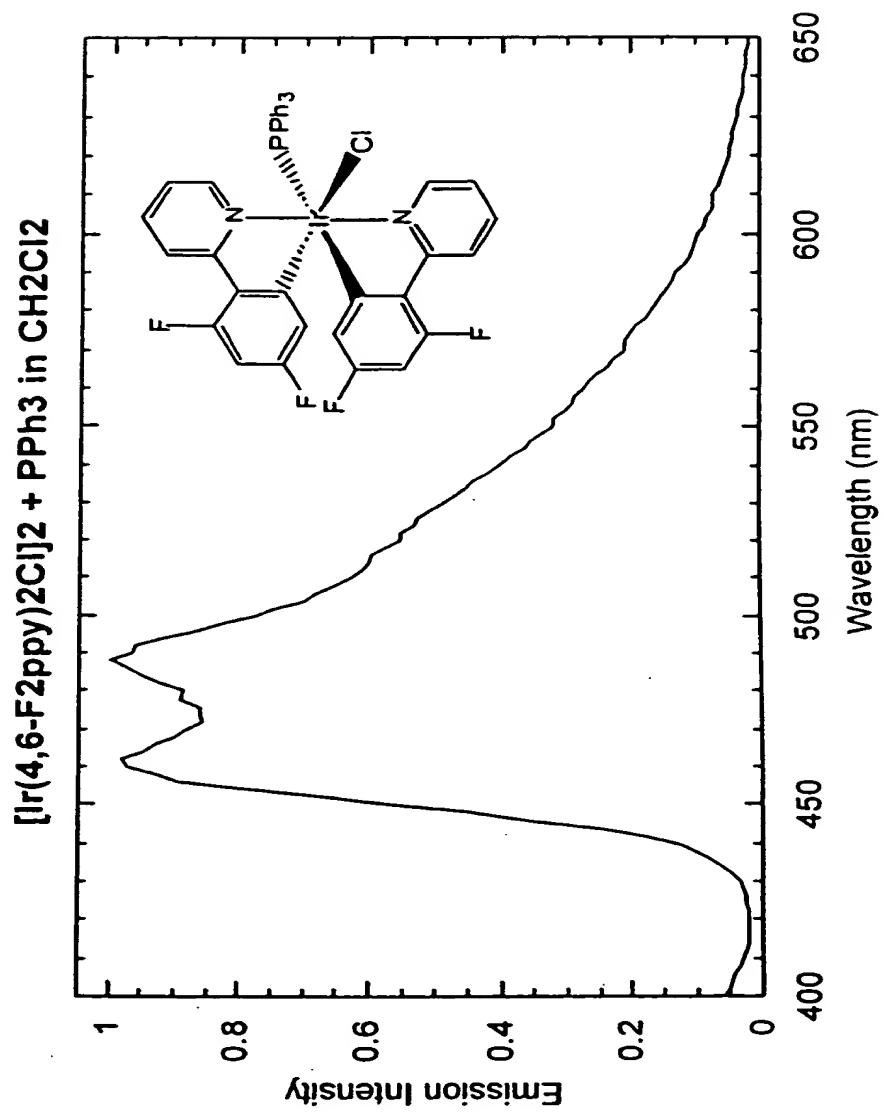


Figure 7e

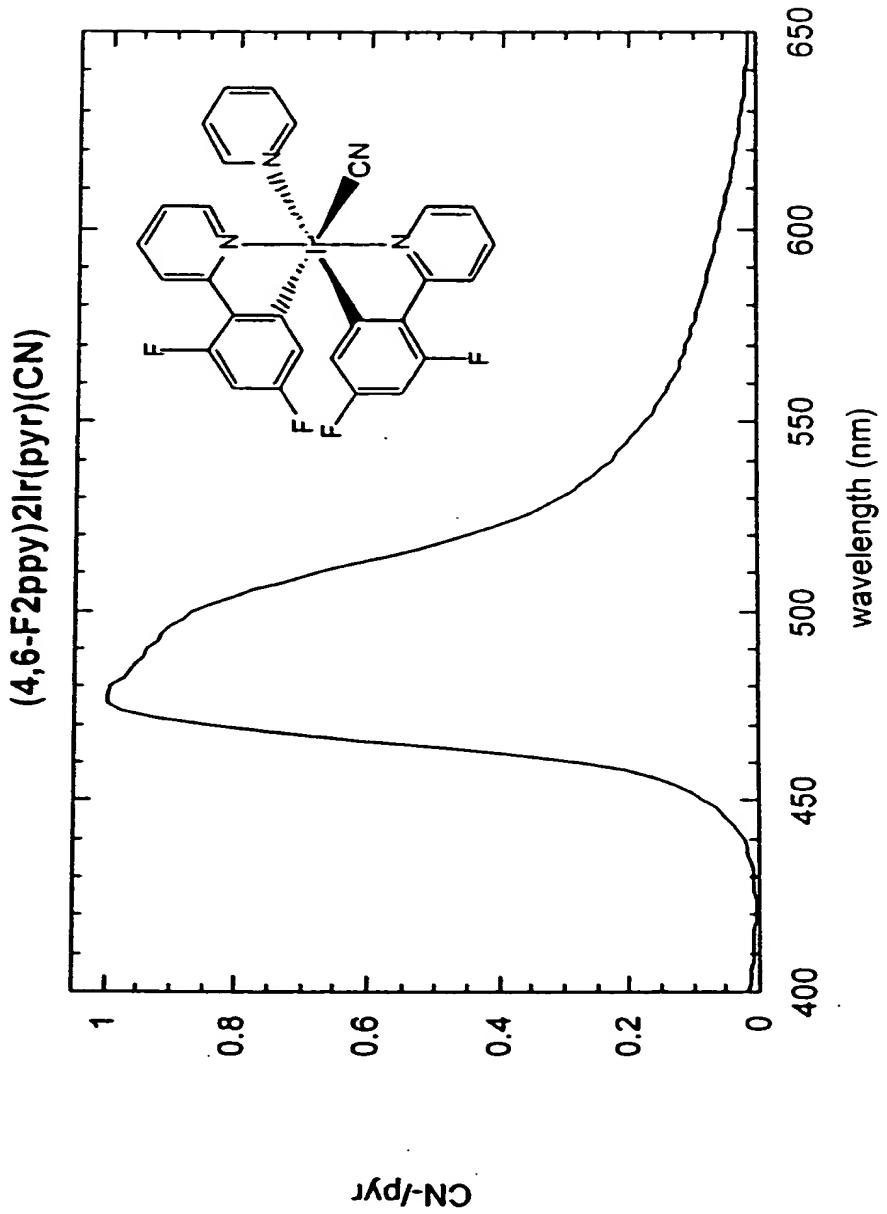


figure 7f

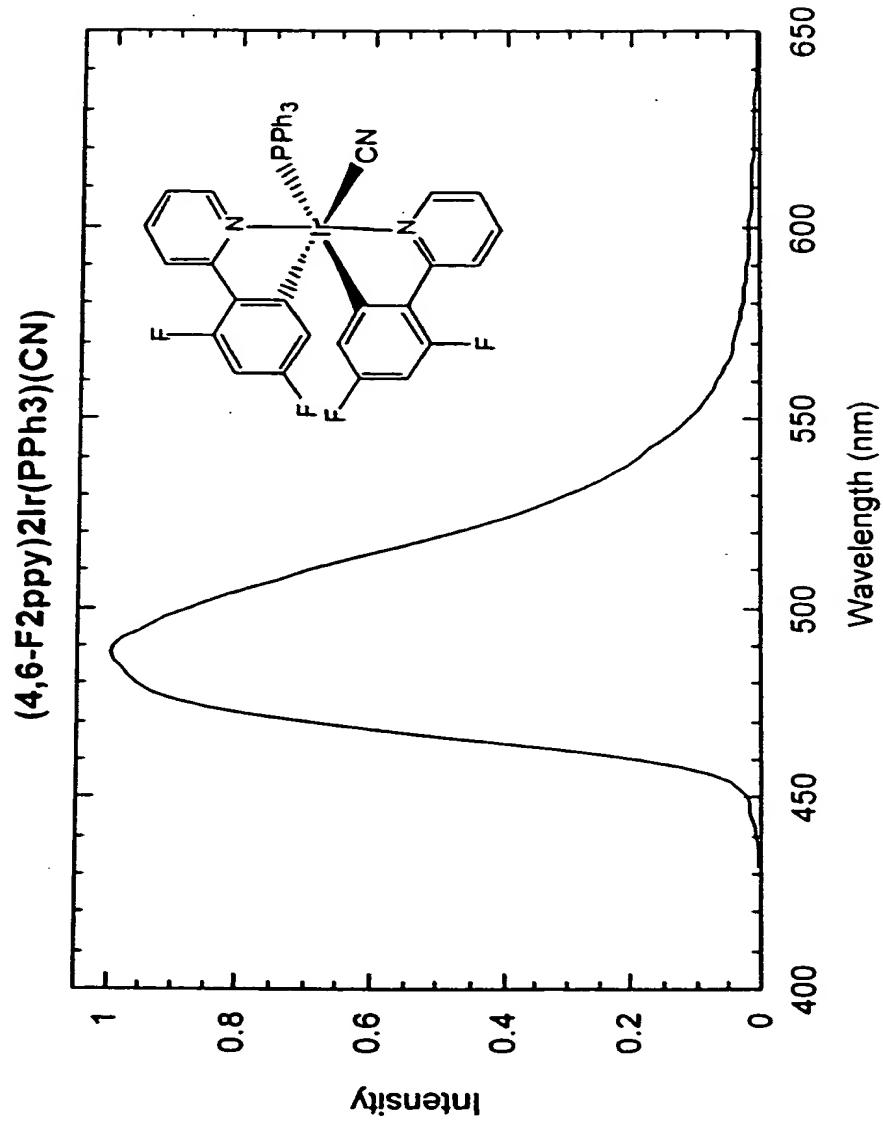


Figure 7g

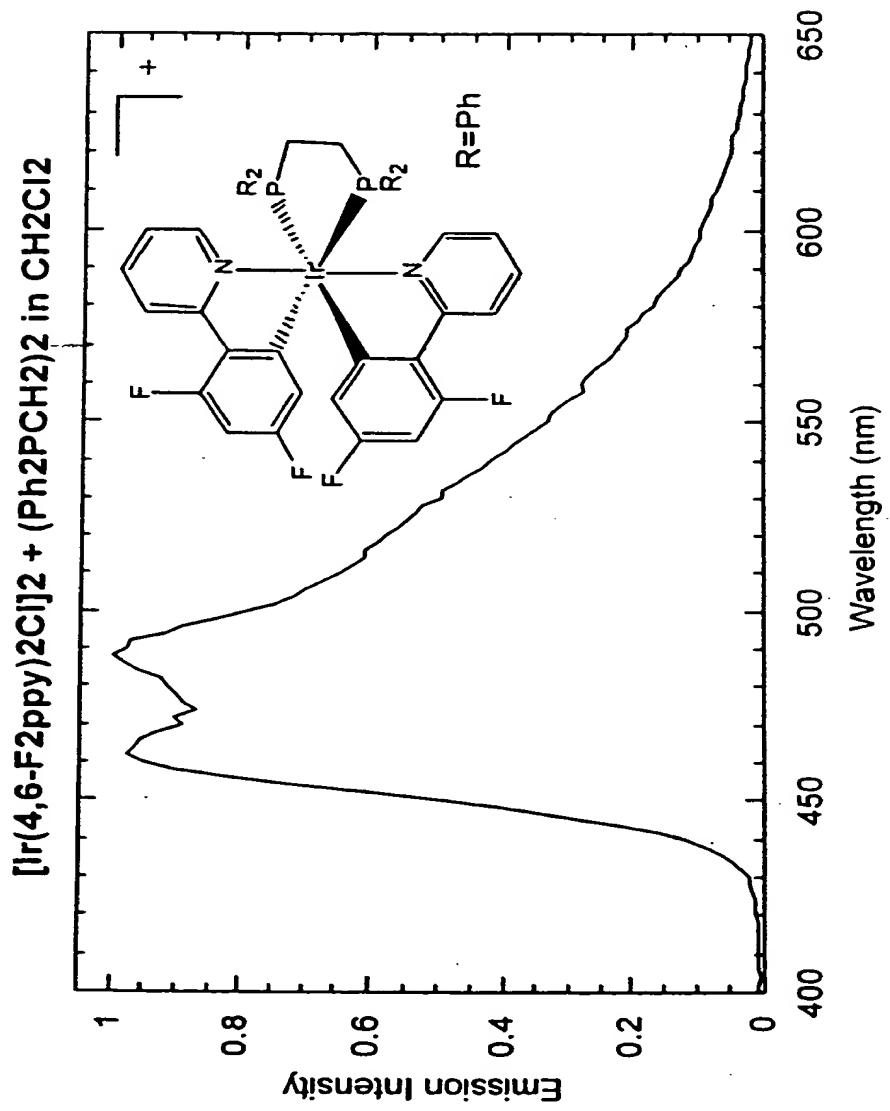


Figure 7h

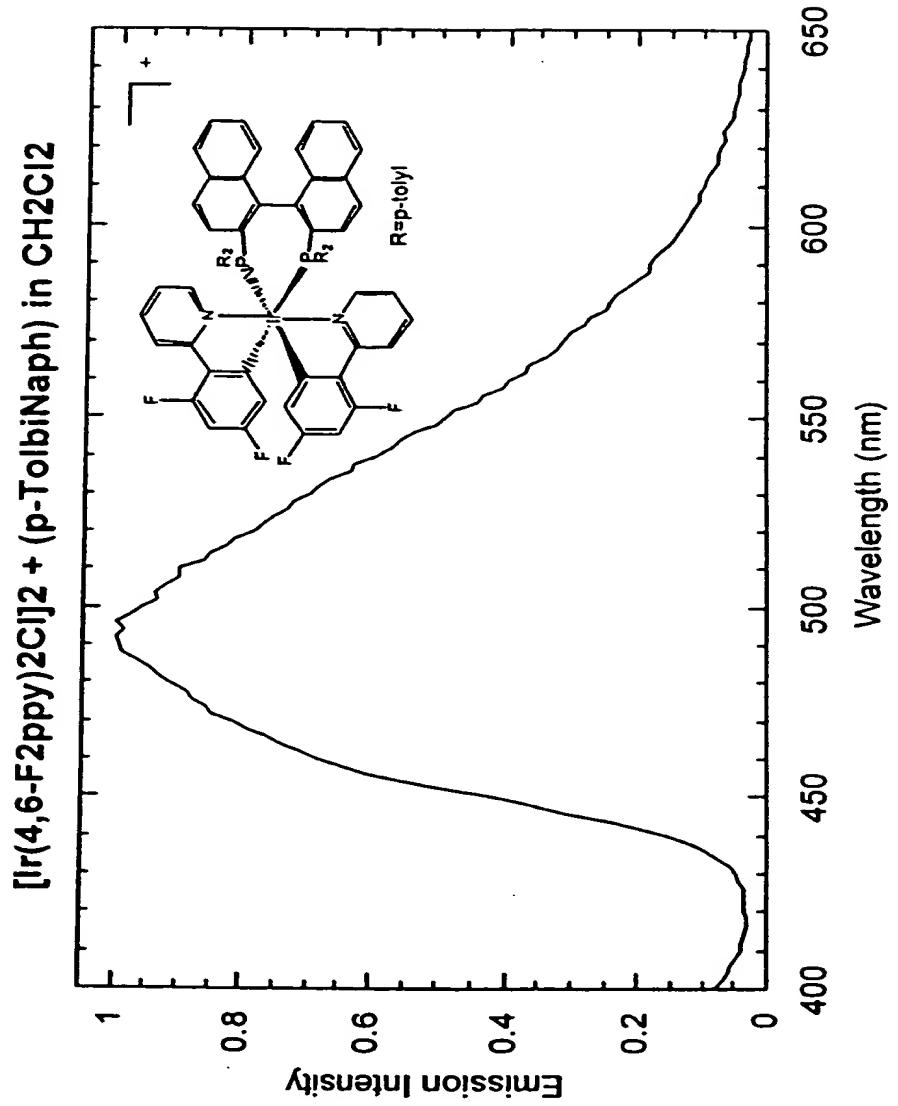


Figure 7i

$[\text{Ir}(4,6\text{-F}_2\text{ppy})_2\text{Cl}]_2 + 2,2'\text{-bipy}$  in  $\text{CH}_2\text{Cl}_2$

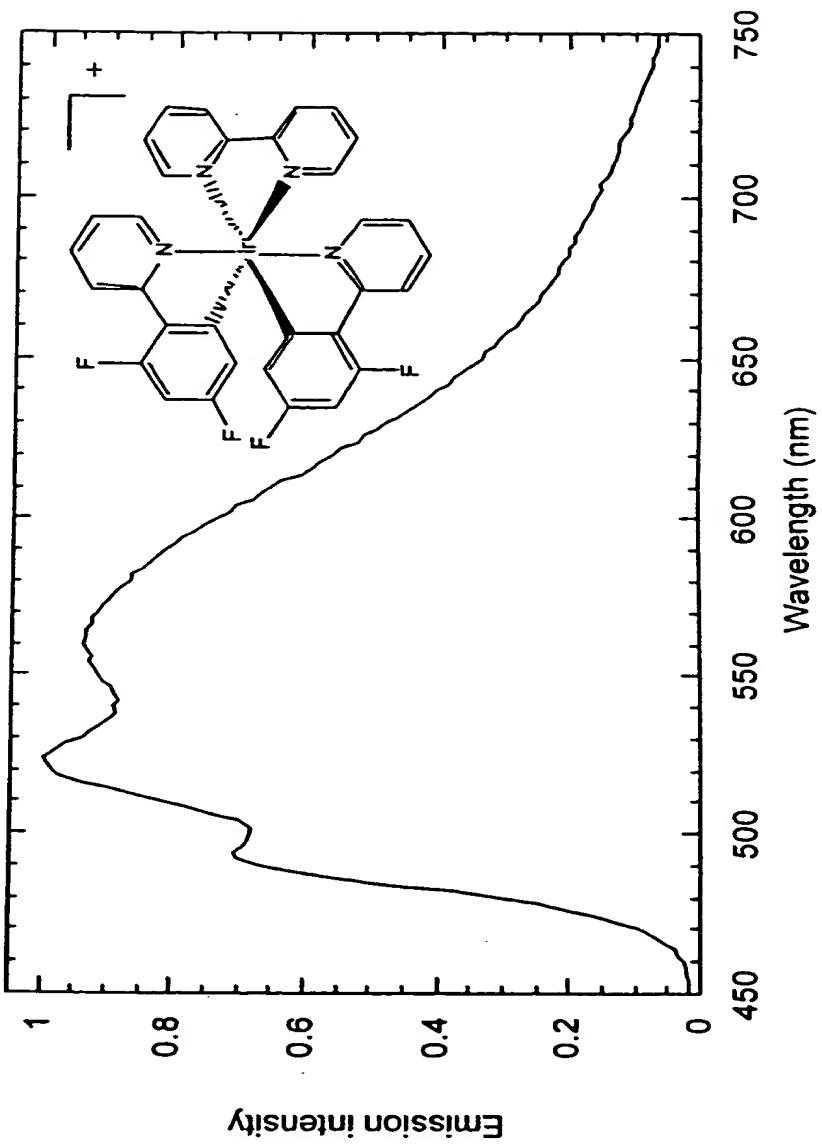


Figure 7j

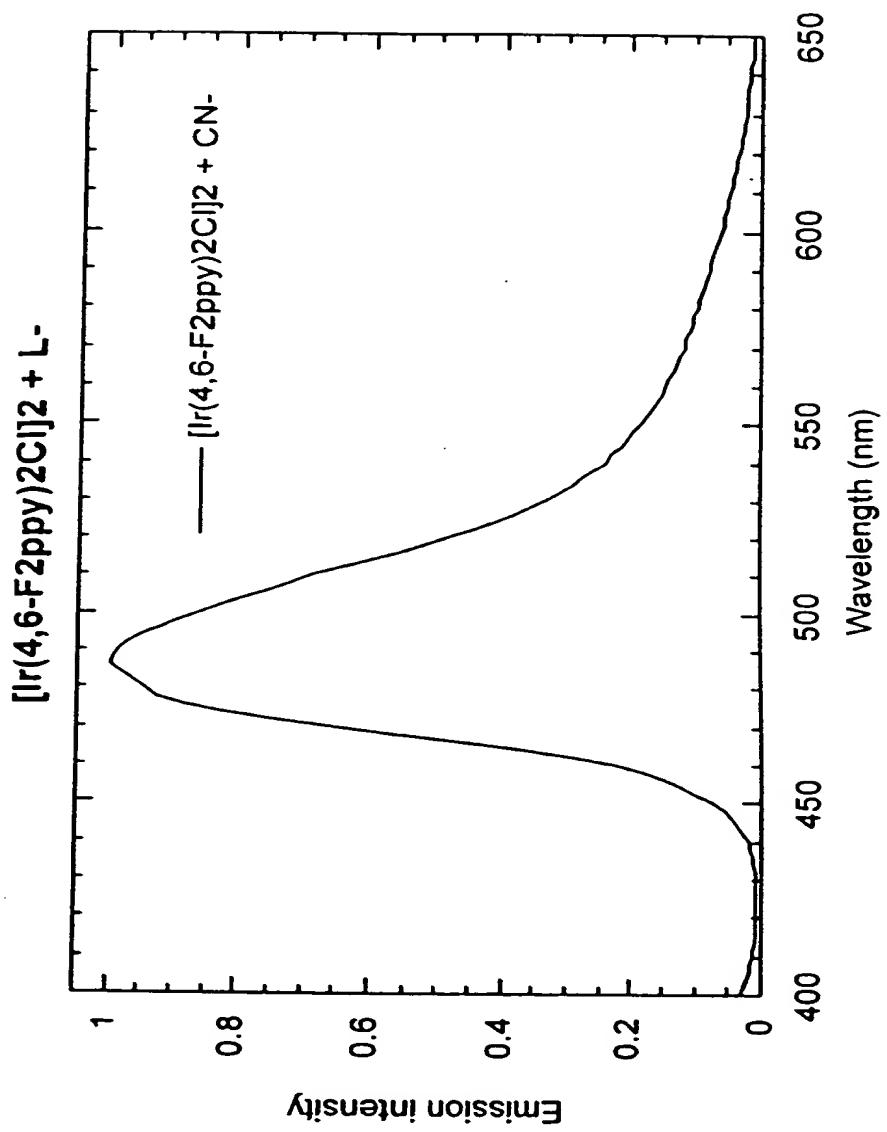


Figure 7k

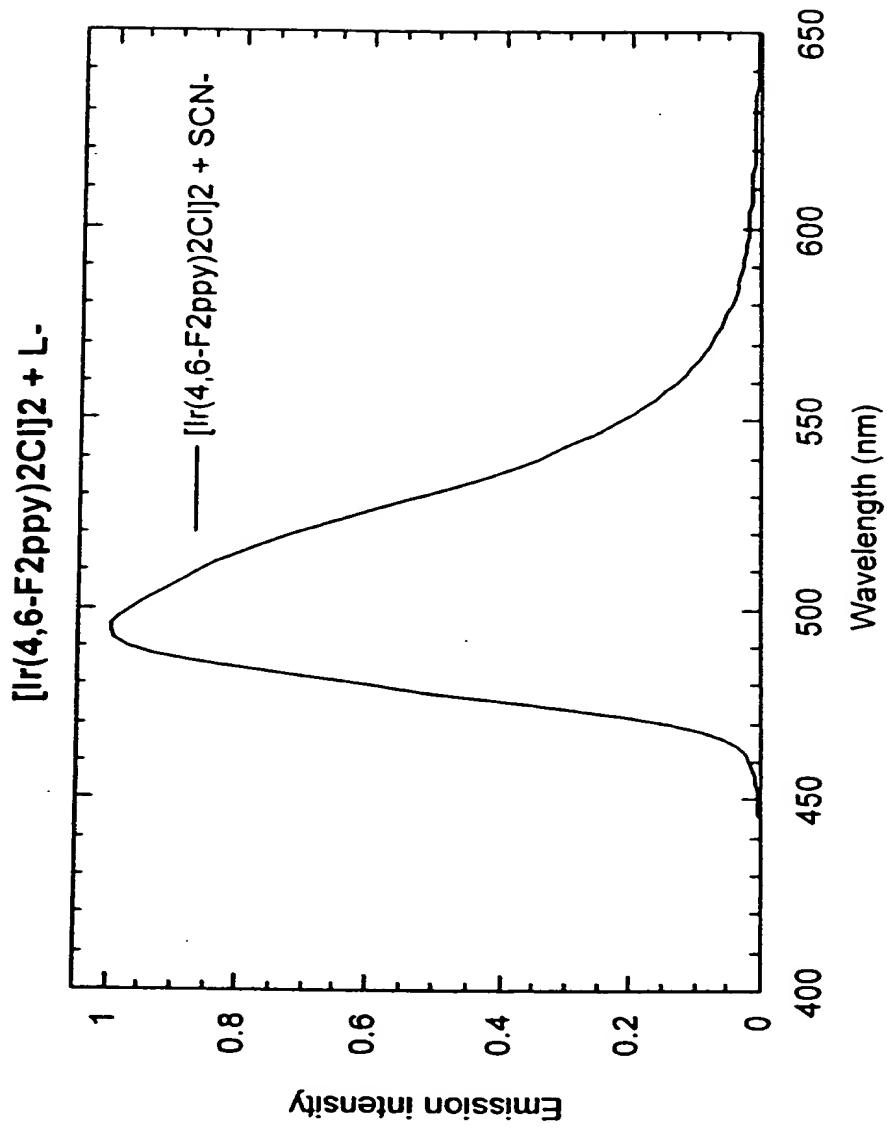


Figure 71

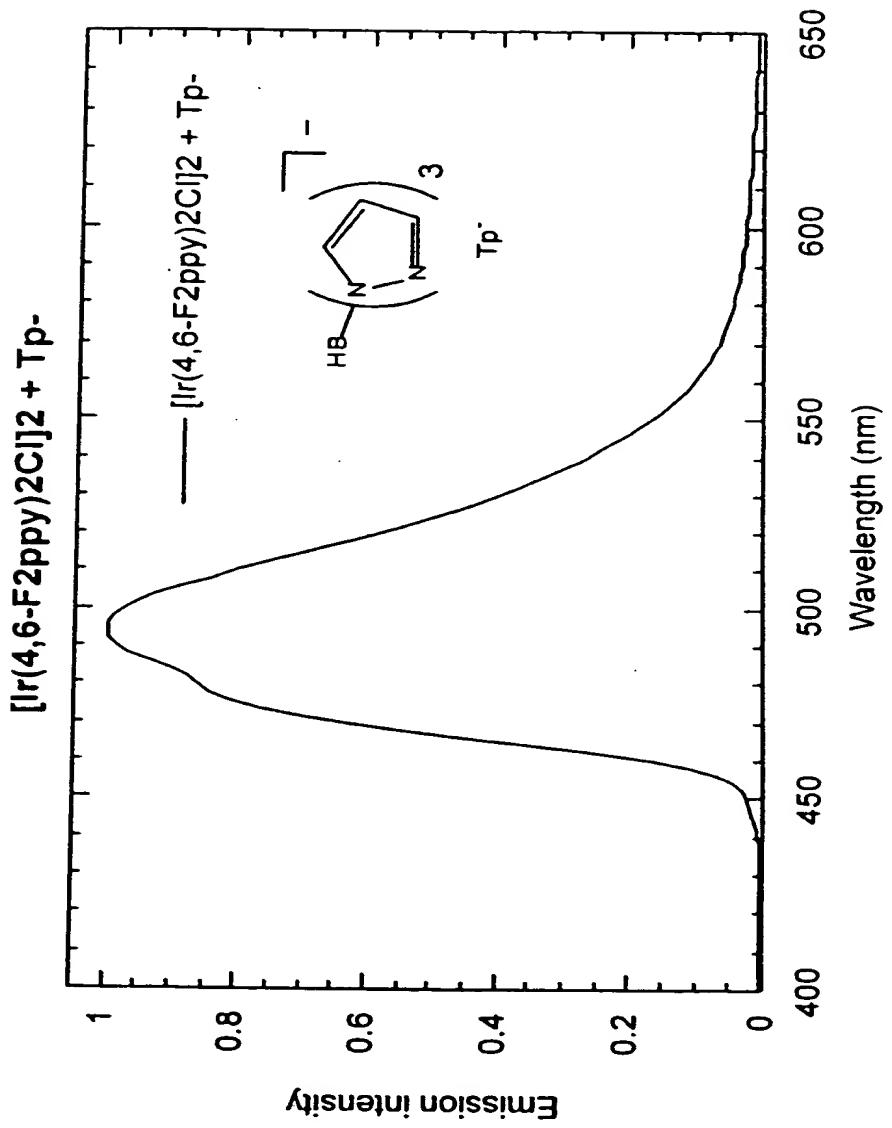


Figure 7m

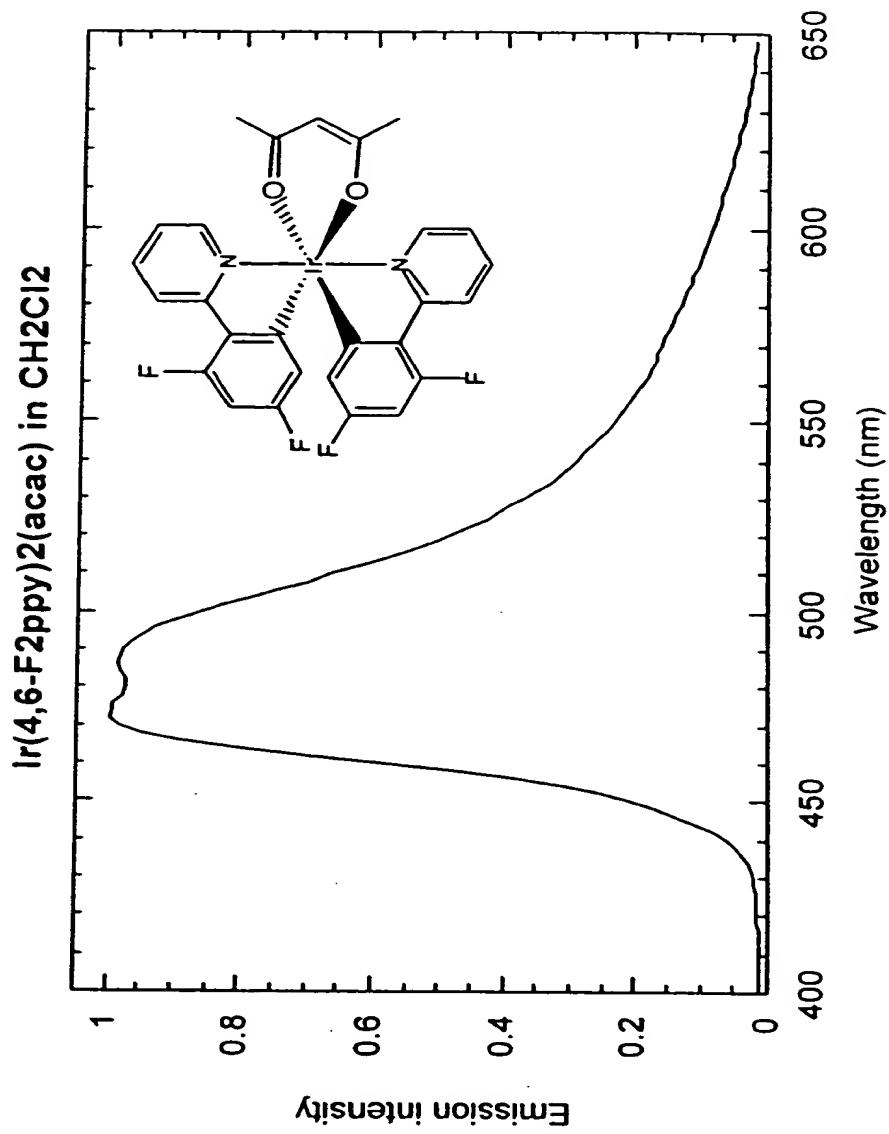


Figure 7n

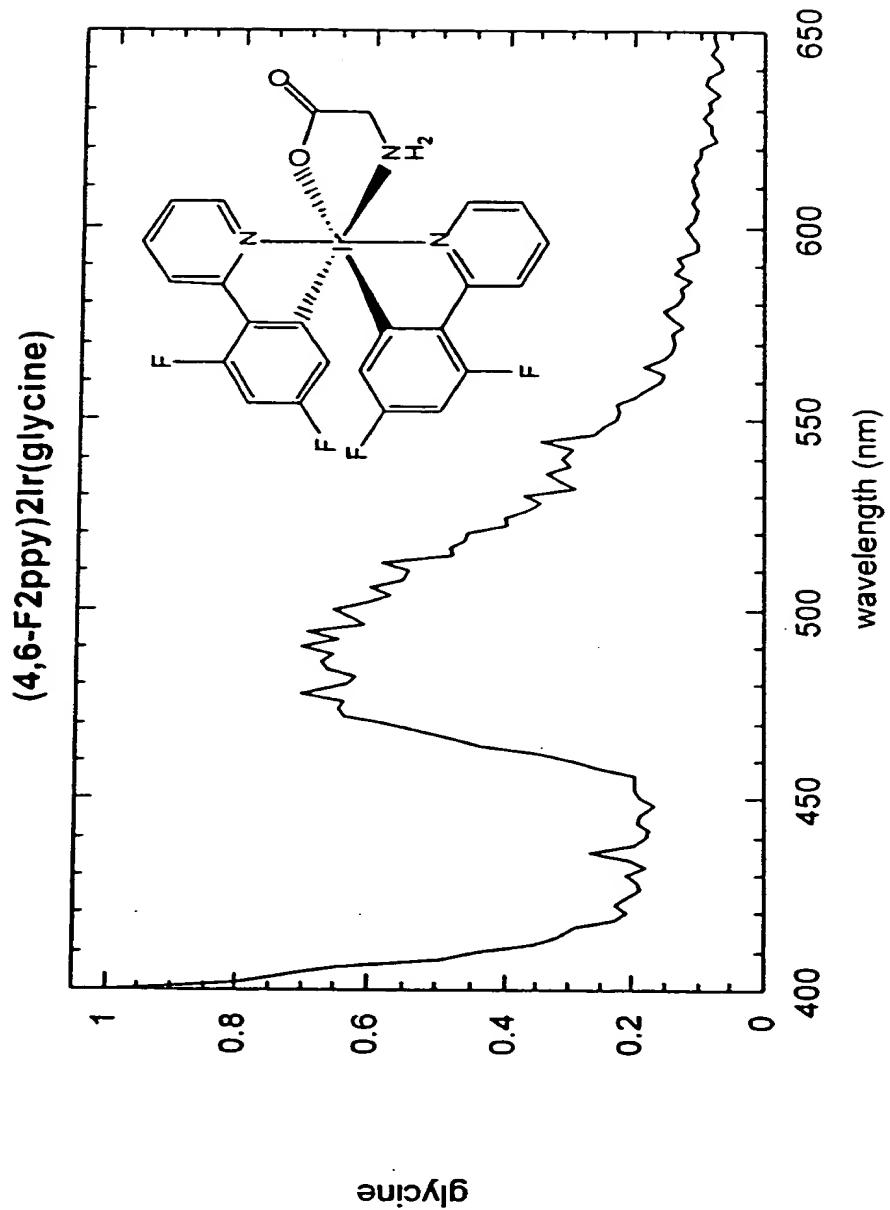


Figure 70

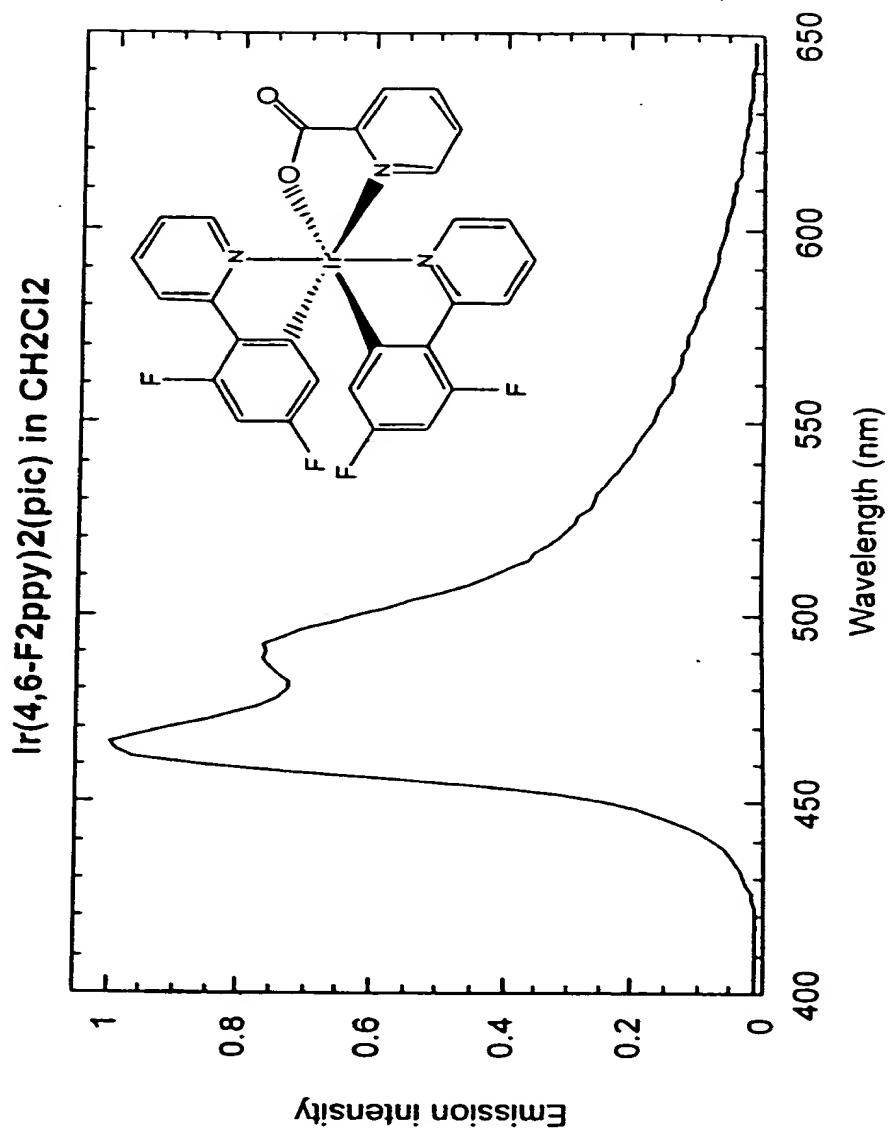


Figure 7p

fac-Ir(4,6-F2ppy)3

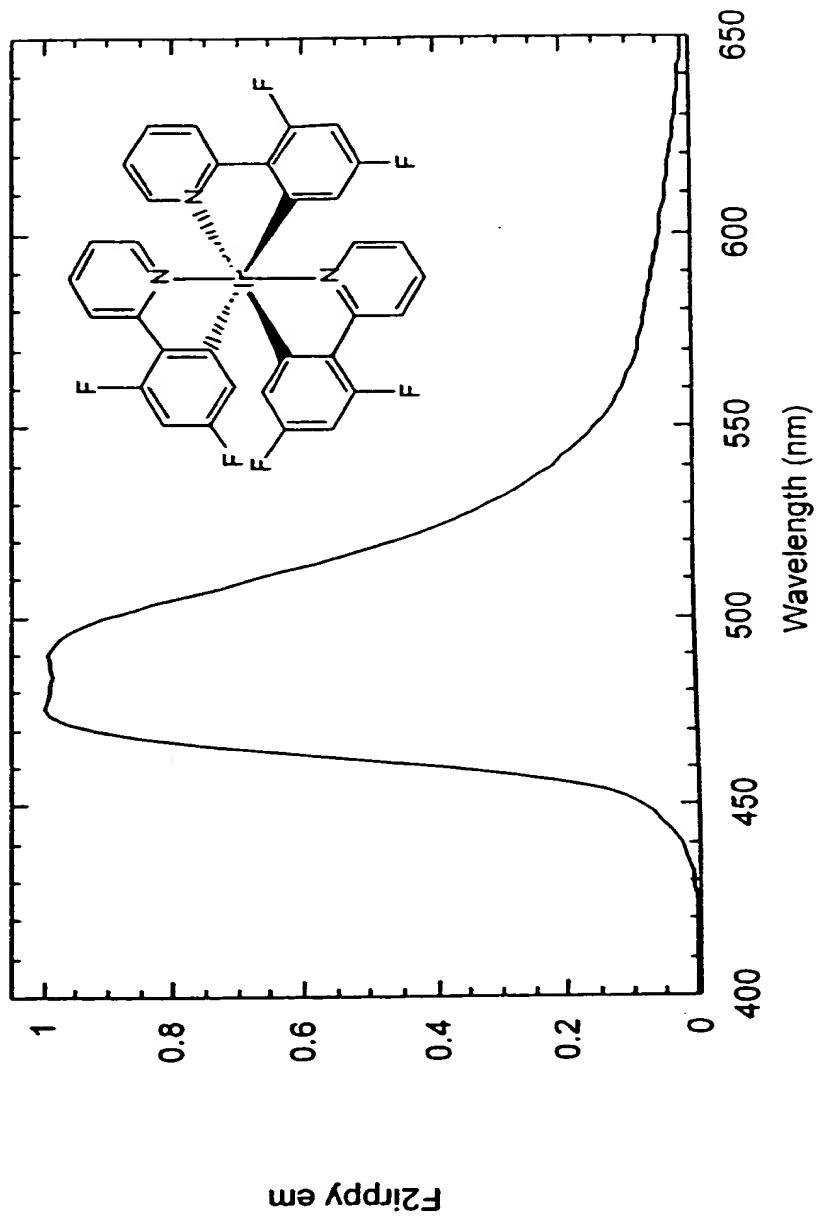


Figure 7q

$[\text{Ir}(4,6\text{-F}_2\text{ppy})_2\text{C}]_2 + \text{pyrzCO}_2\text{H}$  in  $\text{CH}_2\text{Cl}_2$

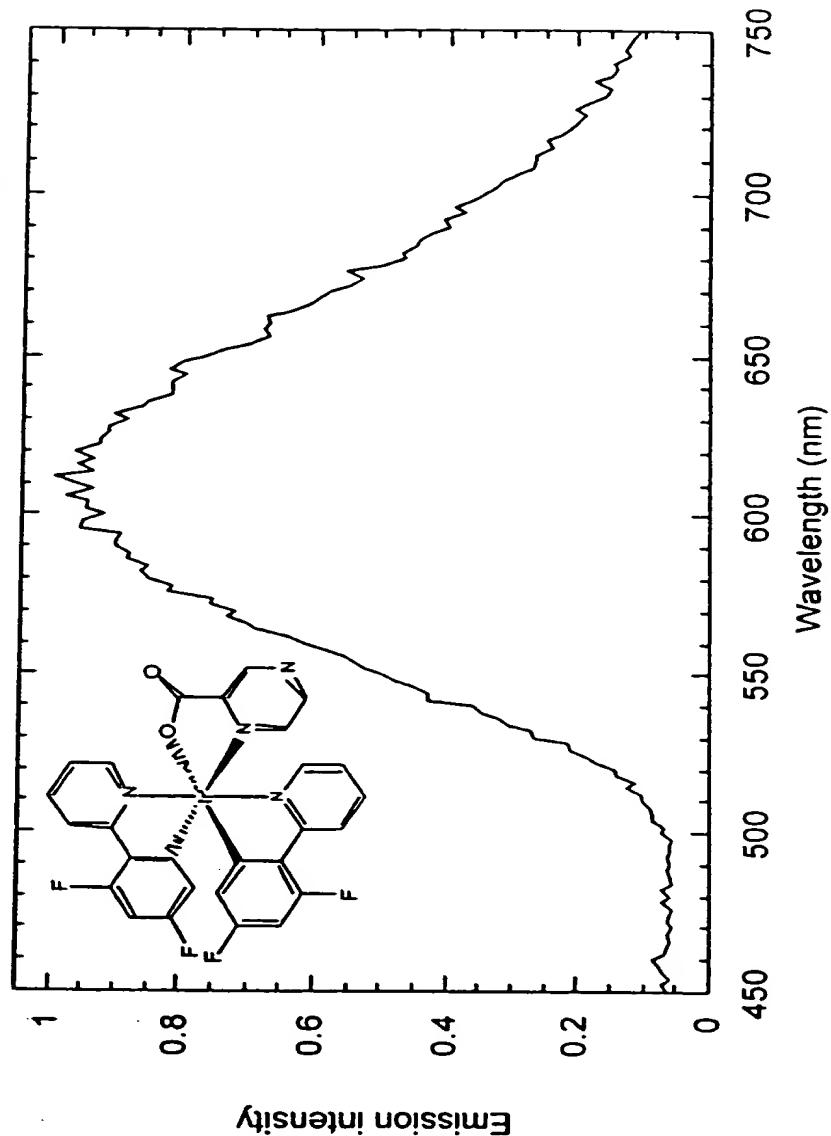


Figure 7r

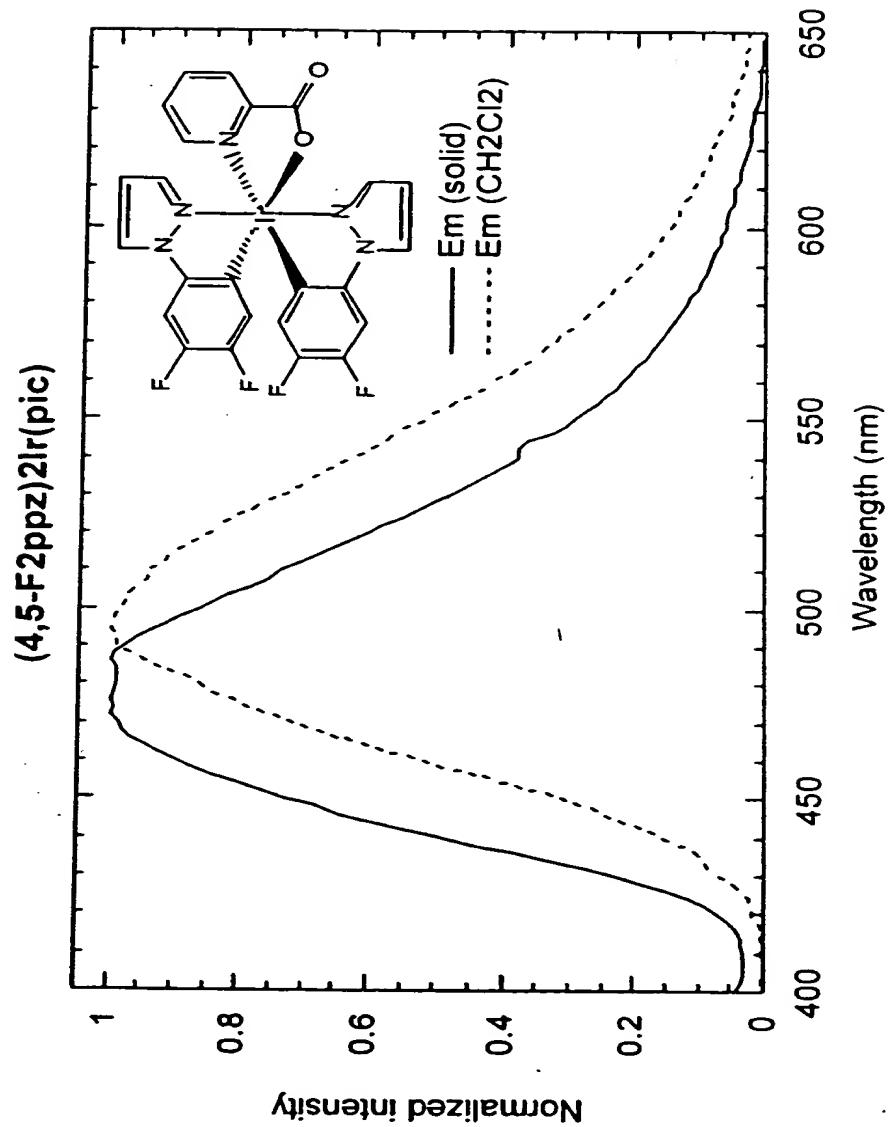


Figure 8a



$X = \text{CH, N}$   
 $E = \text{O, S, Se, Te}$

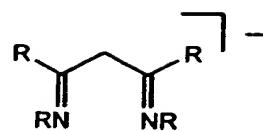


Figure 8t

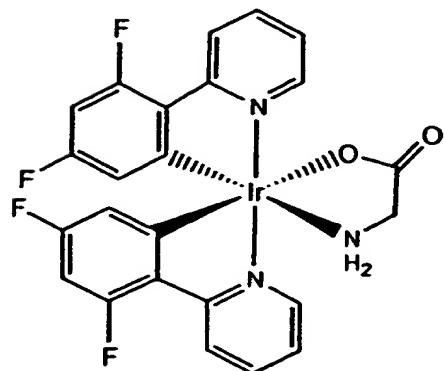
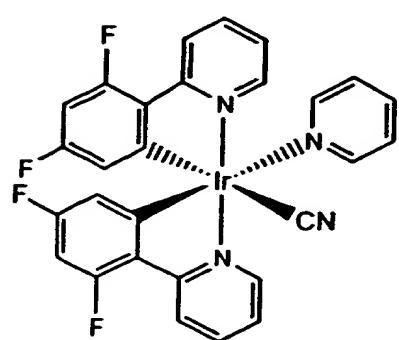
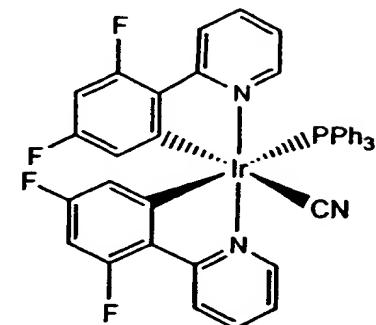
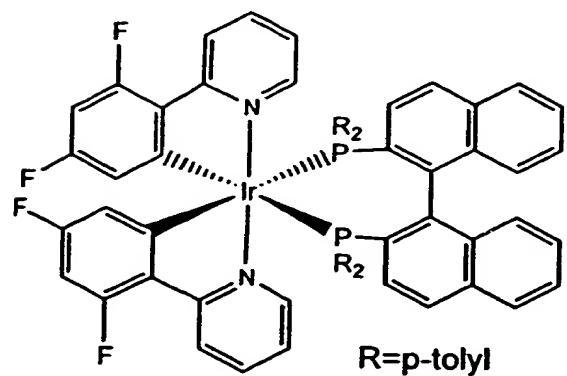
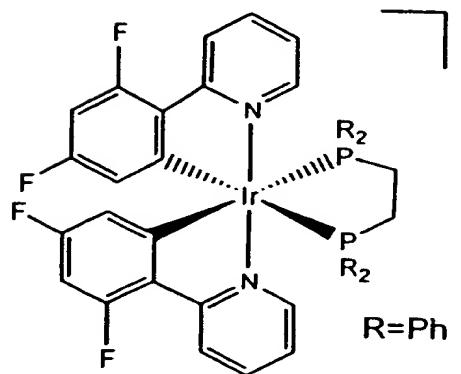
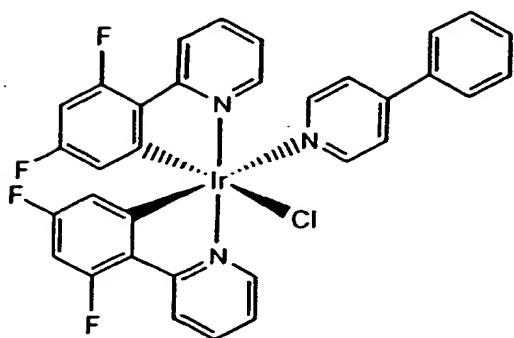
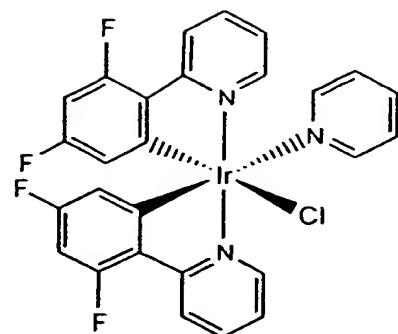
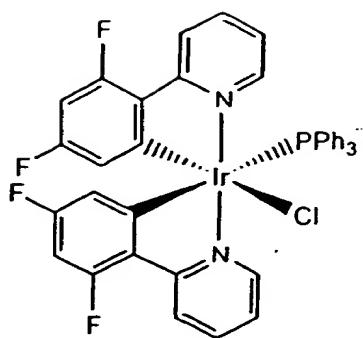
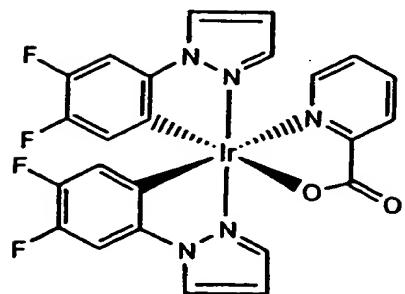
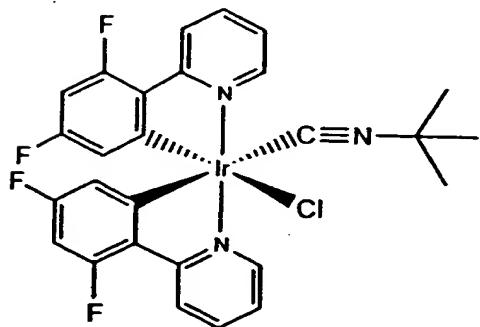
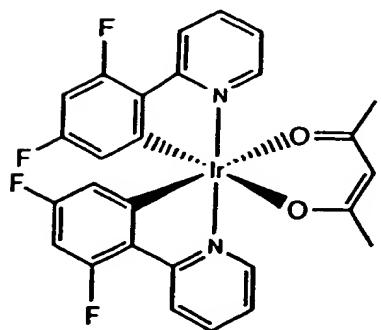
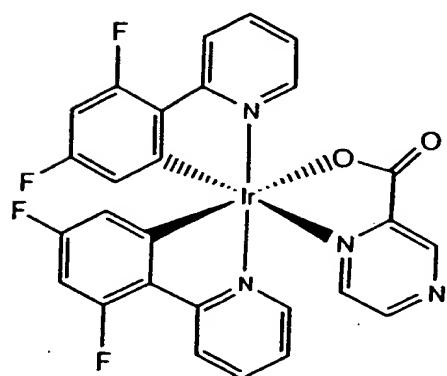
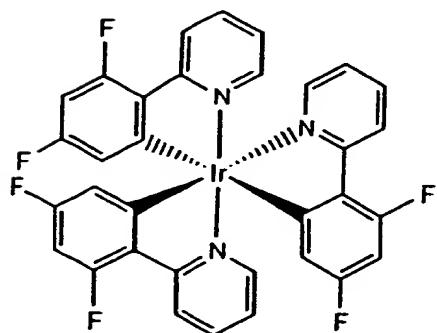
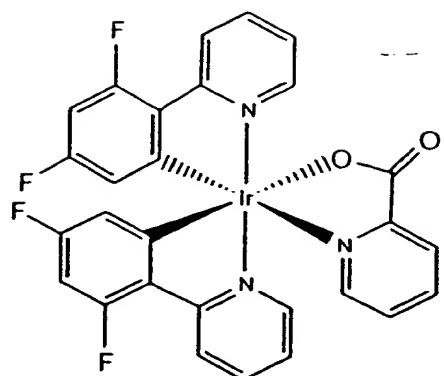
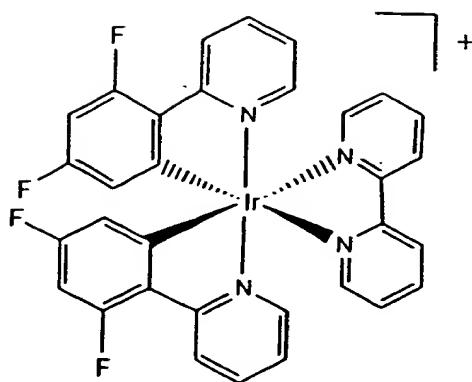
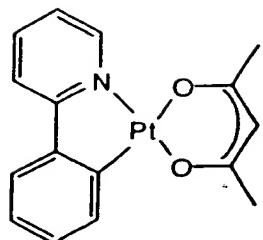


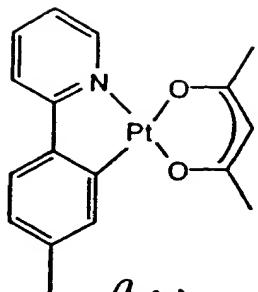
Figure 8C





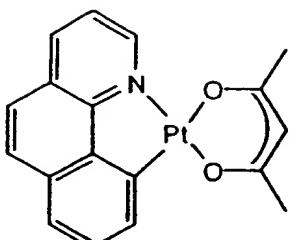
9 (a)

### (ppy)Pt(acac)<sub>2</sub>



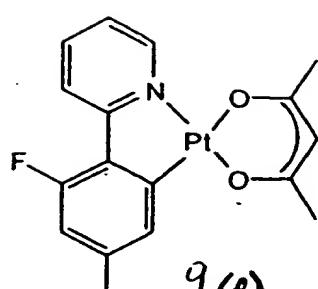
9(b)

### (tpy)Pt(acac)<sub>2</sub>



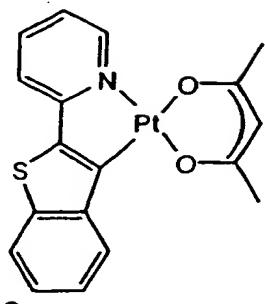
9 (c)

### (bzq)Pt(acac)<sub>2</sub>



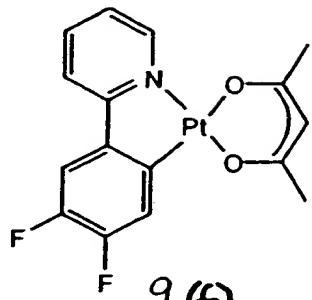
9(e)

### (4,6-F<sub>2</sub>ppy)Pt(acac)



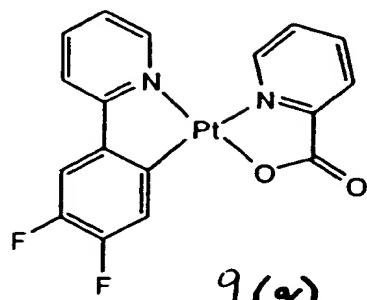
9(e)

## (btp)Pt(acac)<sub>2</sub>



۹ (۴)

### (4,5-F<sub>2</sub>ppy)Pt(acac)



9 (g)

### (4,5-F<sub>2</sub>ppy)Pt(pico)

## Figures 9(a) - 9(g)

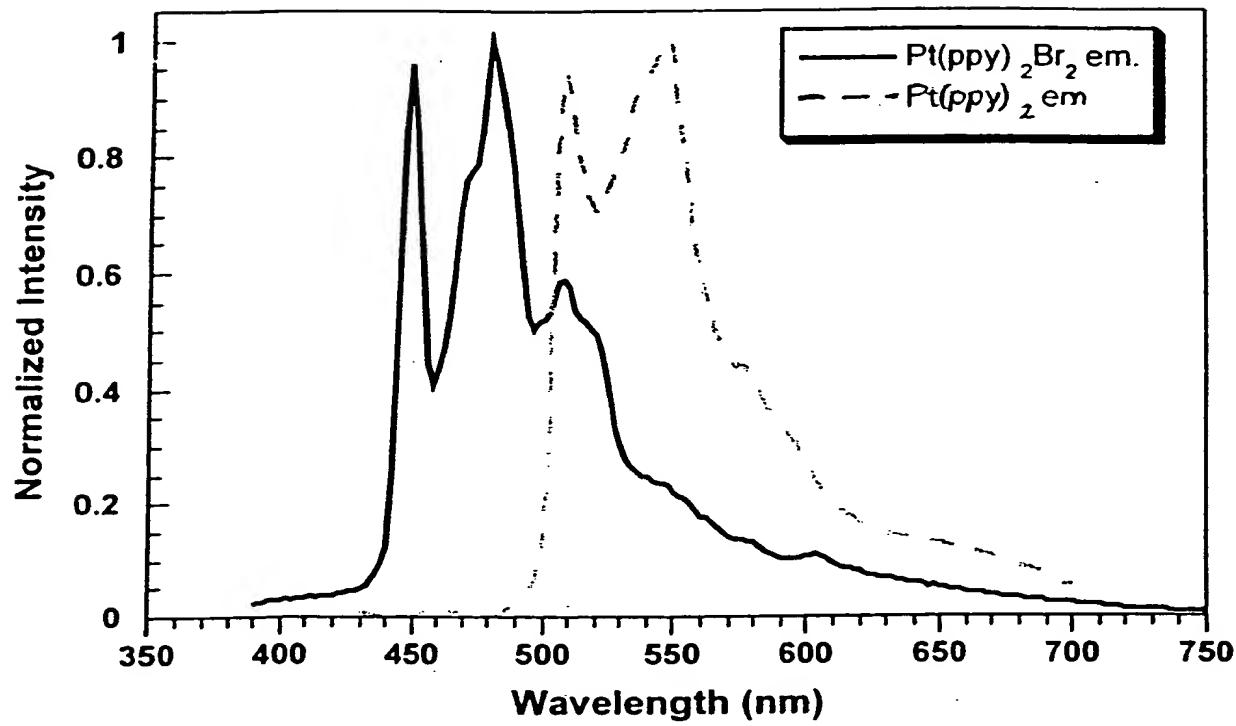


Figure 10

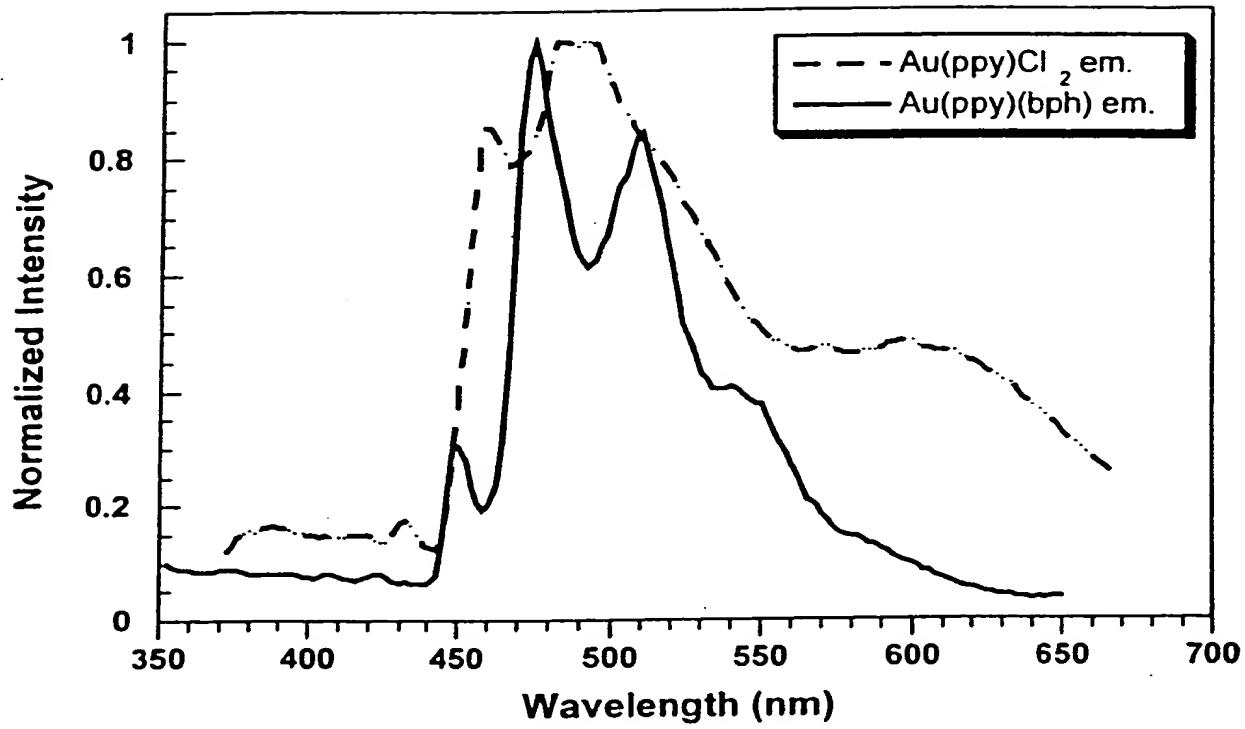


Figure 11

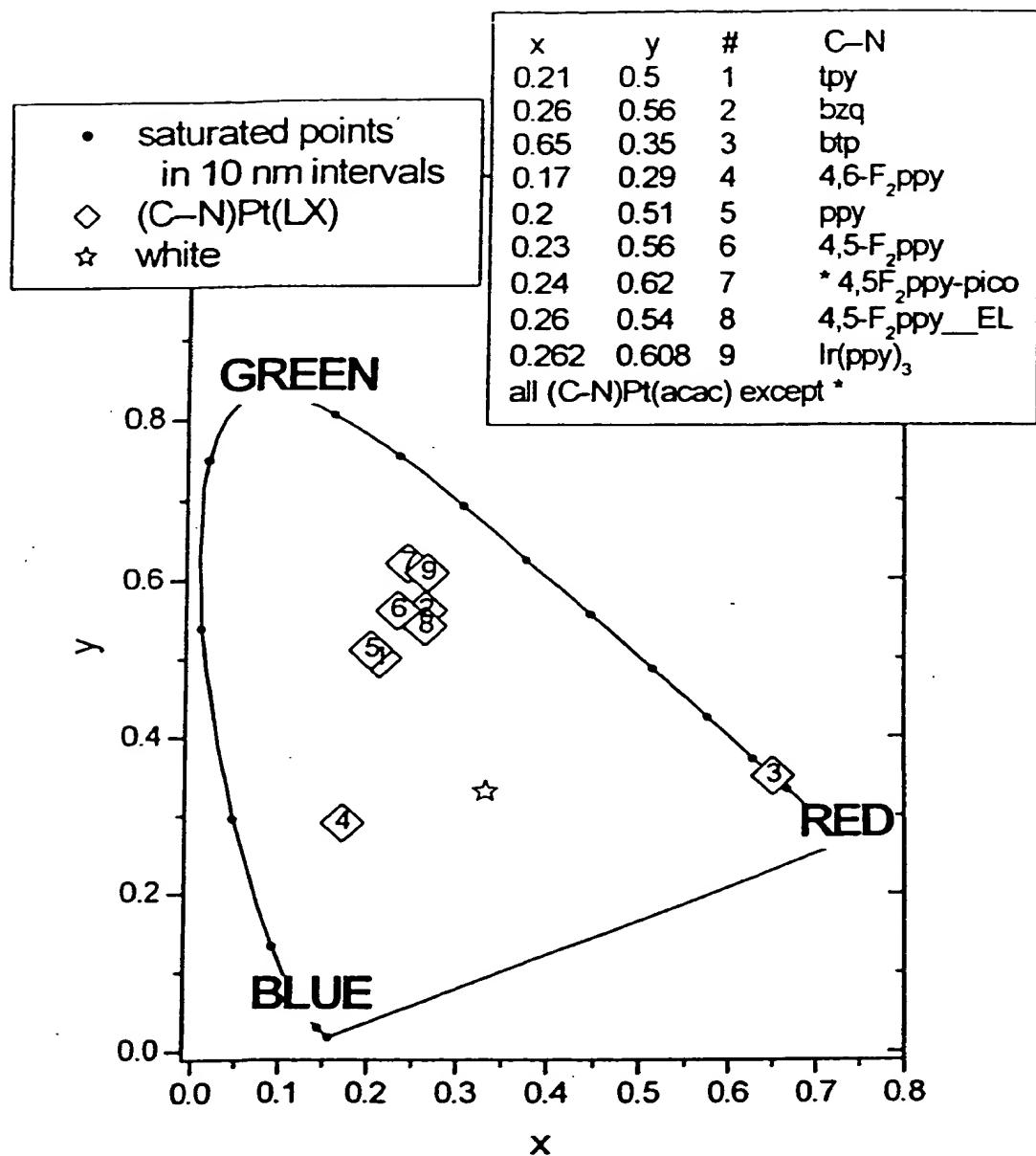


Figure 12

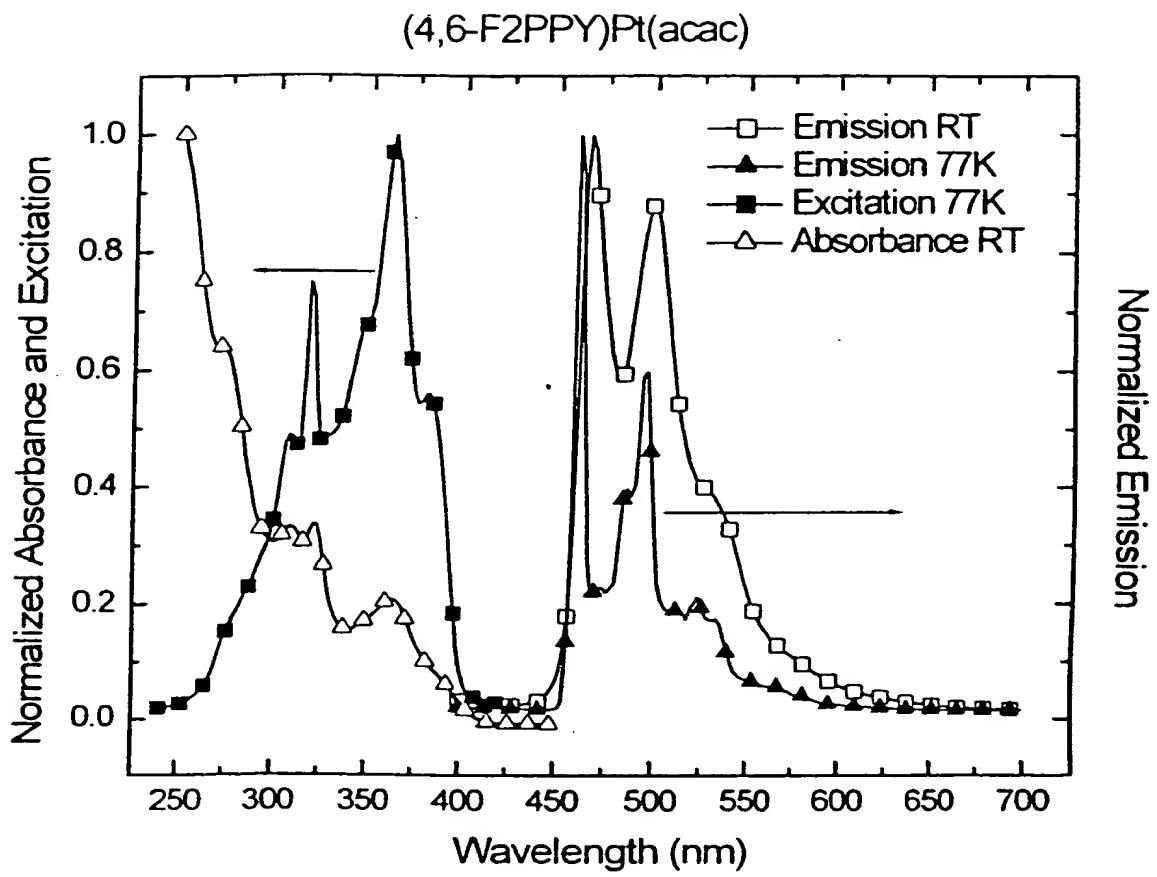


Figure 13

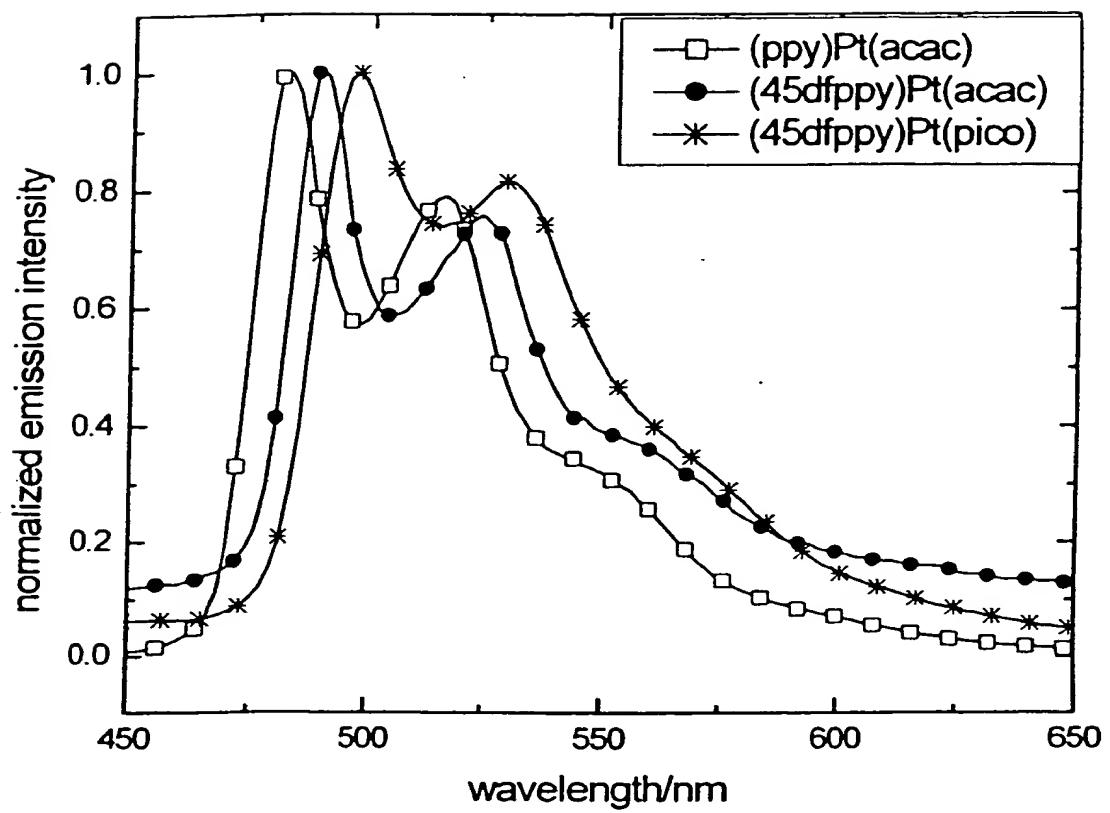


Figure 14

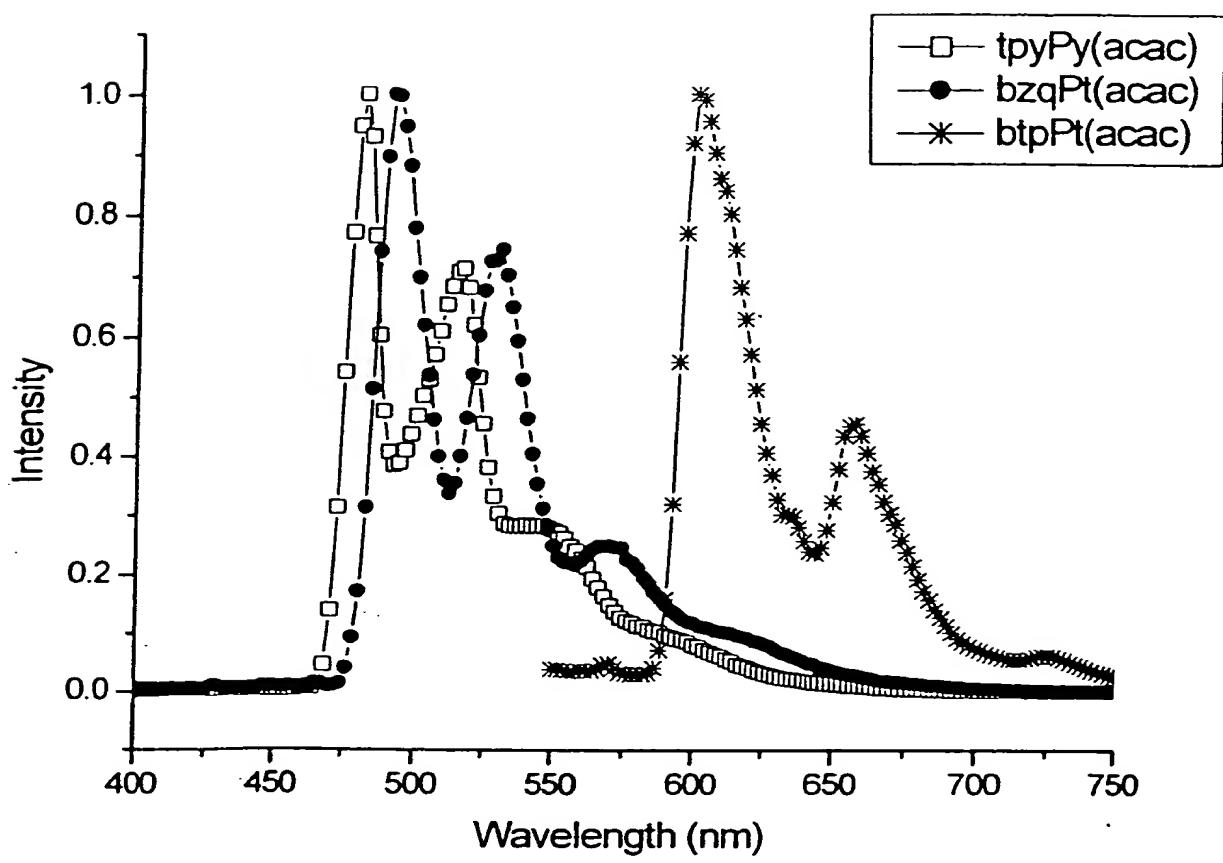


Figure 15

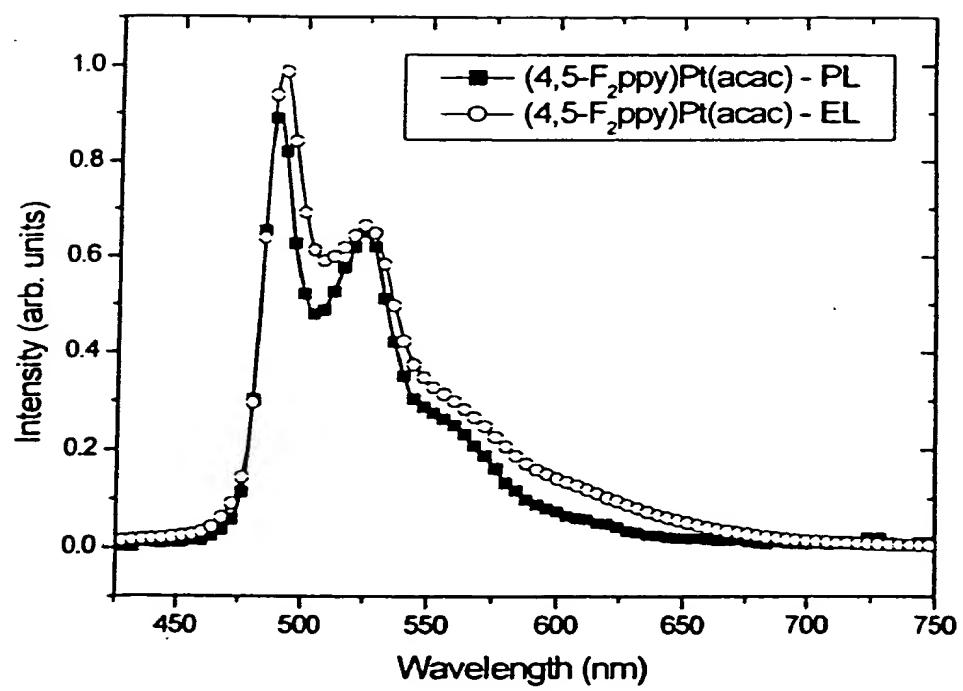
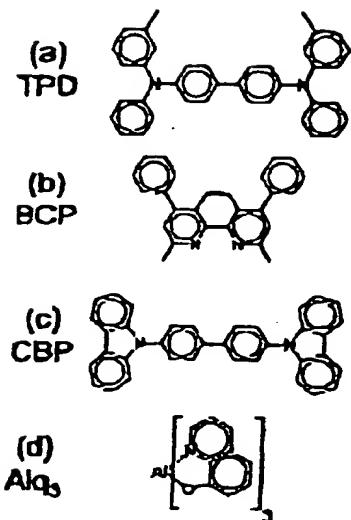


Figure 16

FIG. 17

PRB 62

HOSTS



GUESTS

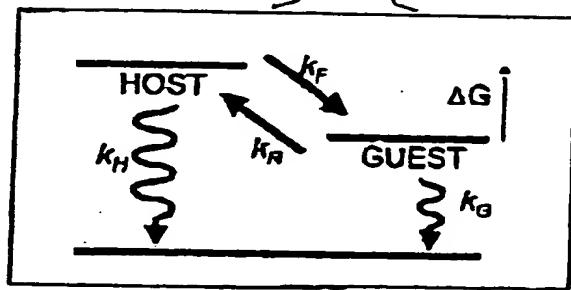
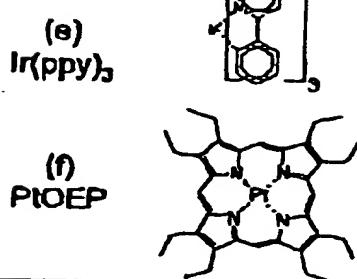


FIG. 18

PRB 62

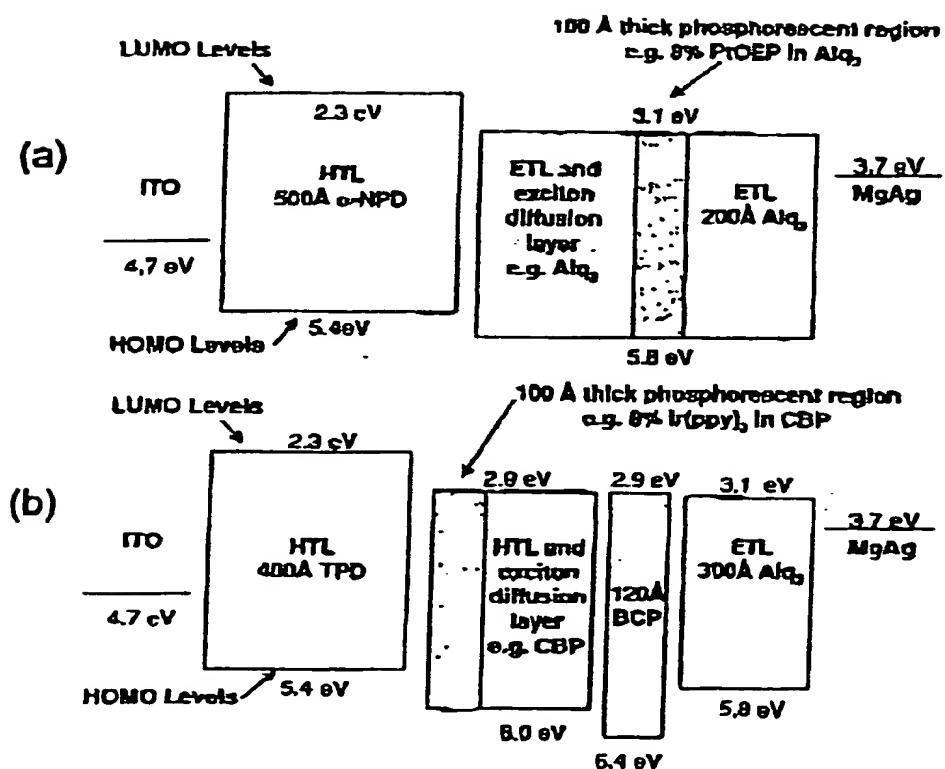


FIG. 19

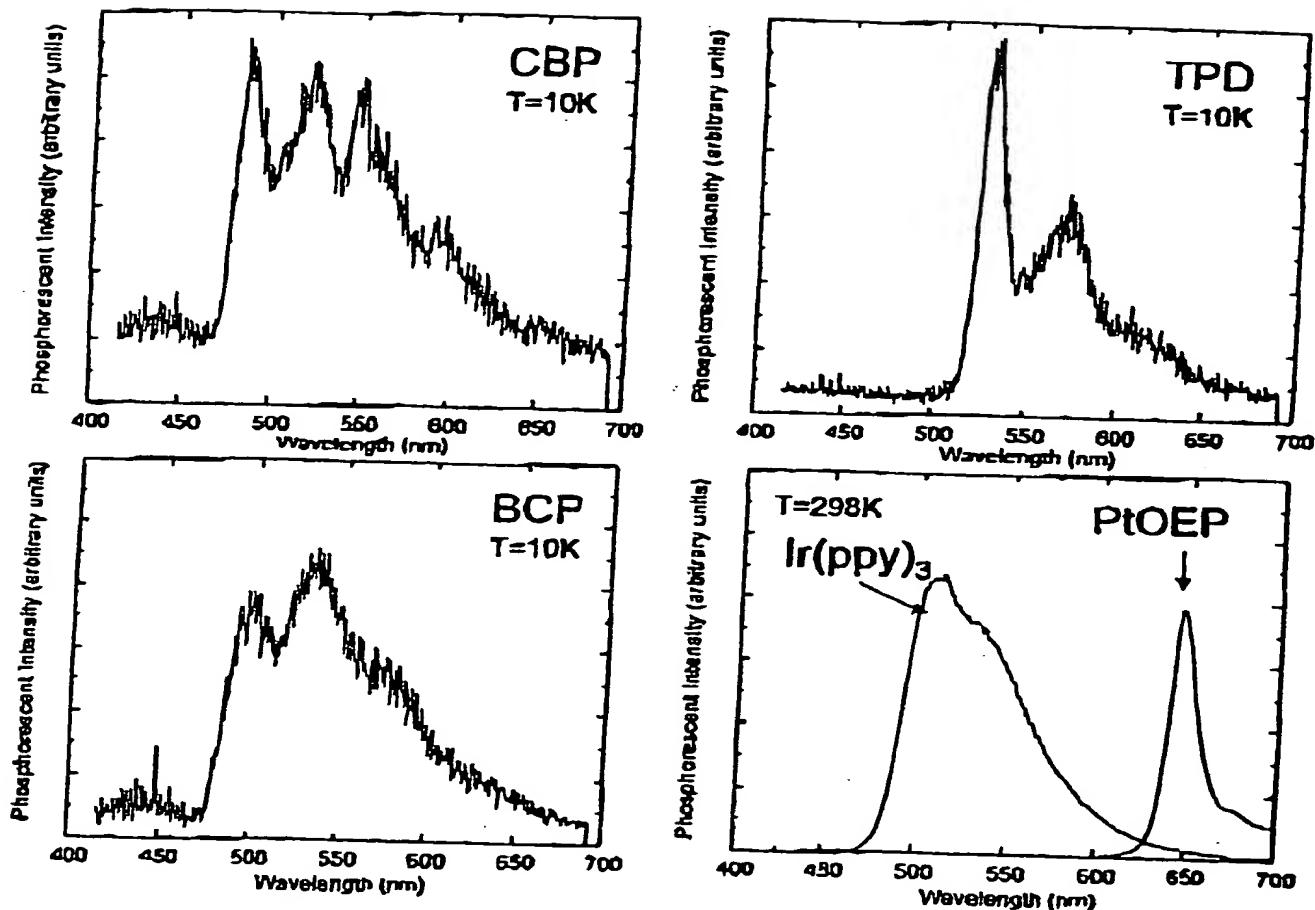


FIG. 20

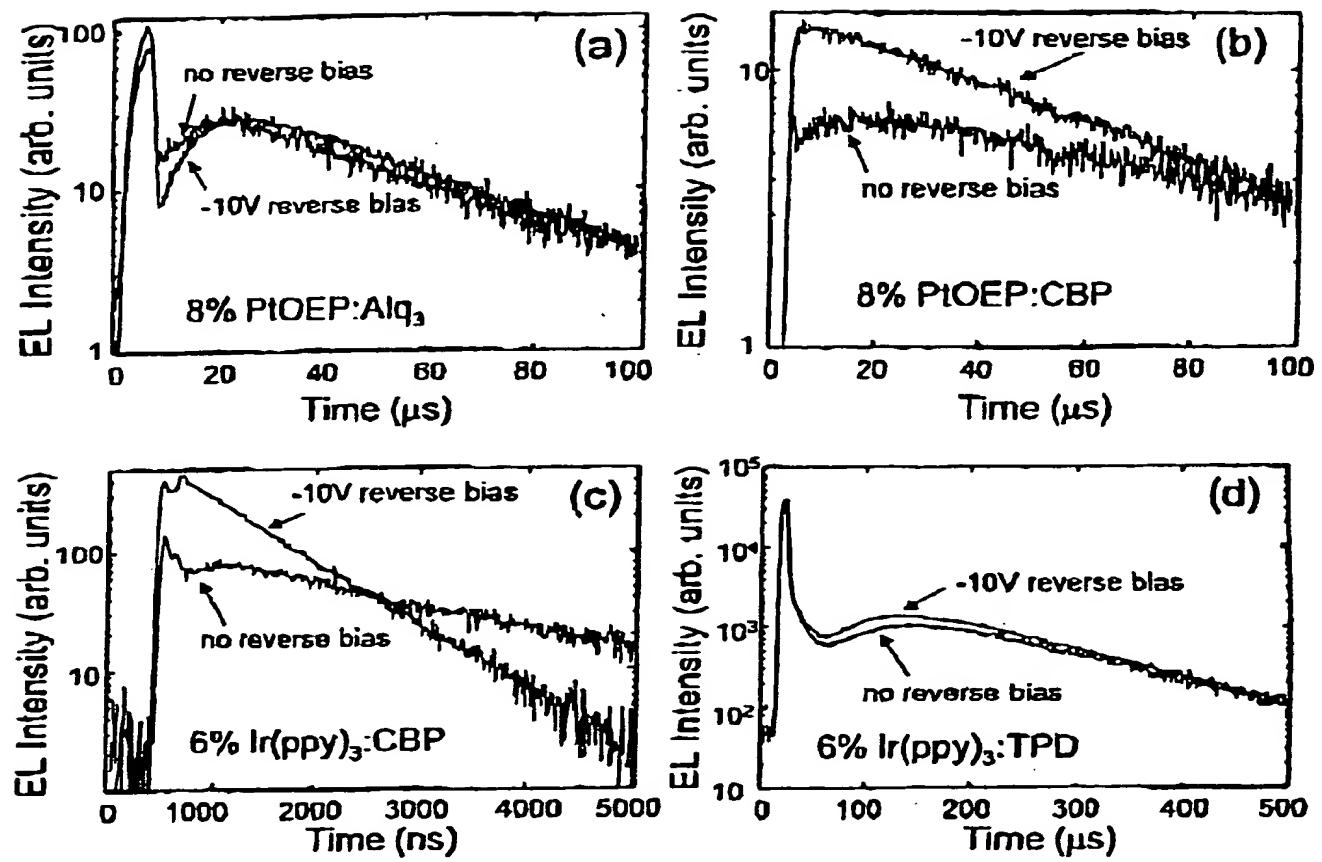


FIG. 21

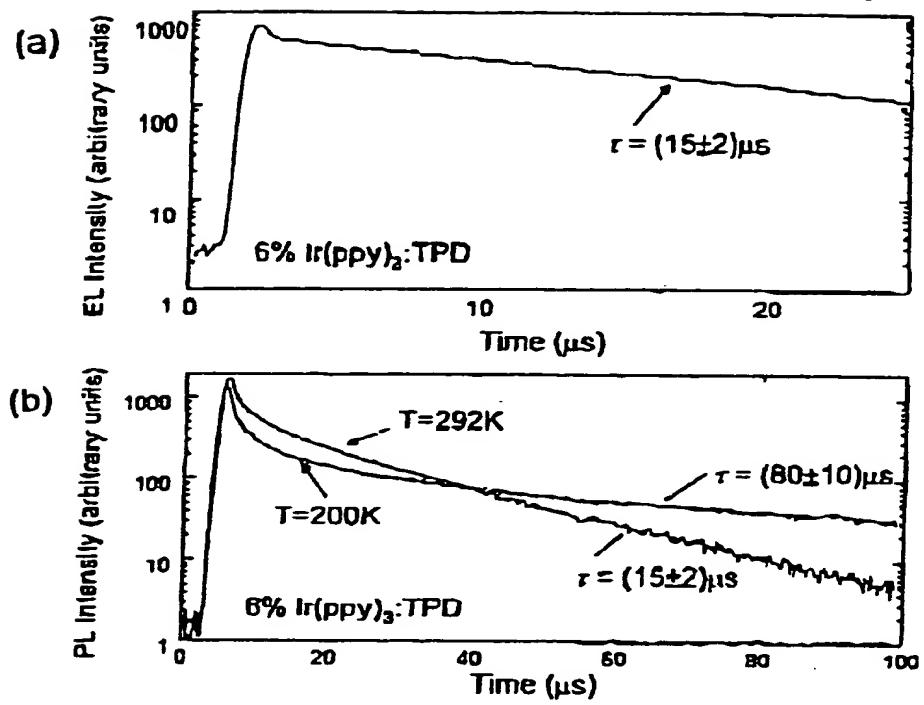


FIG. 22

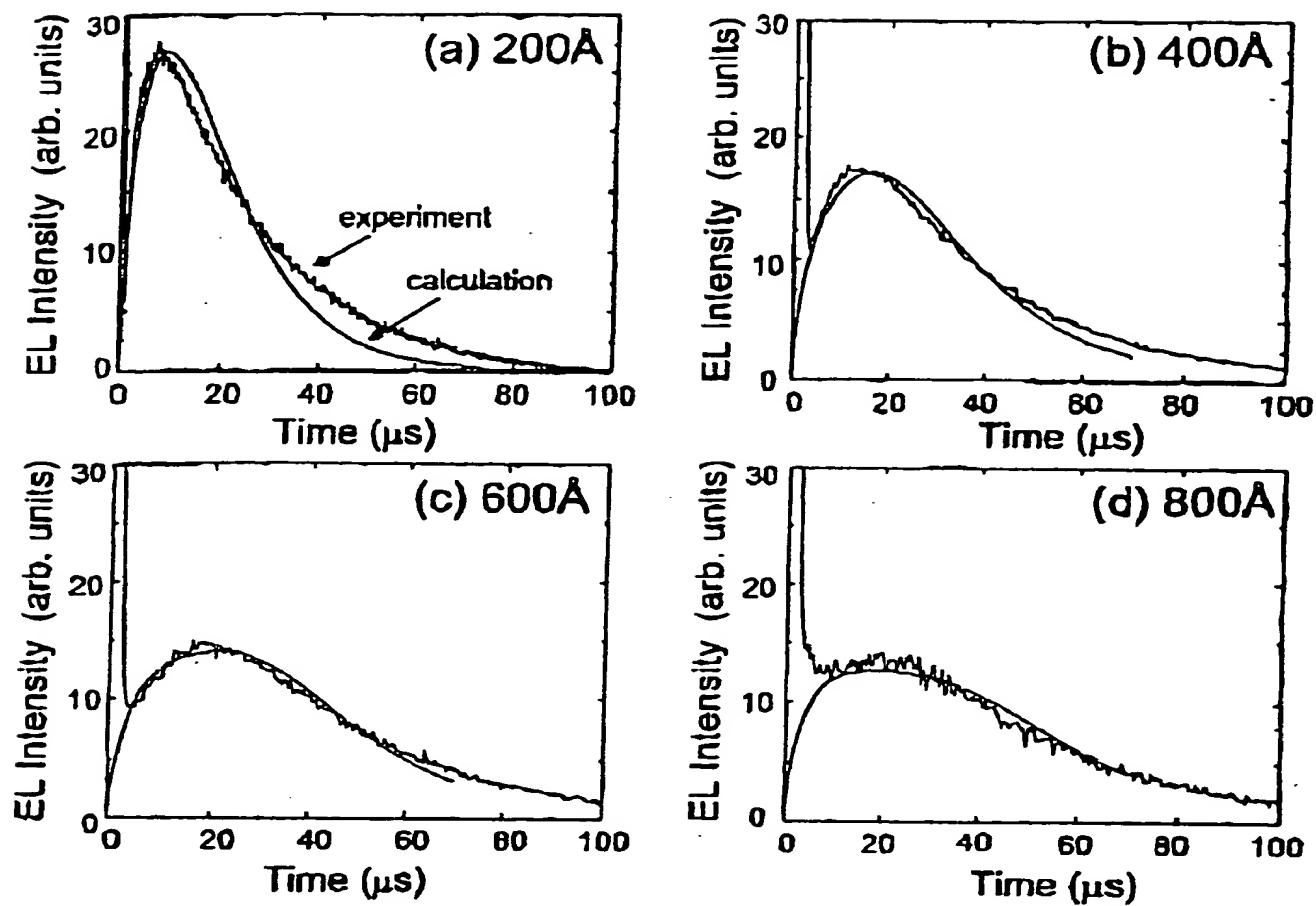


Fig. 23

